

JOHN M. ARCHIBALD

Curriculum vitae May 2024

Department of Biochemistry & Molecular Biology
Dalhousie University
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ACADEMIC POSITIONS

Director

Institute for Comparative Genomics
(October 2017- present)

Arthur B. McDonald Chair

Dalhousie University (January 2021-December 2027)

Distinguished Research Professor

Dalhousie University (July 2016-June 2021)

Visiting By-Fellow

Churchill College, University of Cambridge, UK
(July – December 2012)

Cross-appointed Professor

Department of Microbiology & Immunology,
Dalhousie University (05/2022-present)

Professor

Department of Biochemistry & Molecular Biology,
Dalhousie University (07/2012-present)

Associate Professor

Department of Biochemistry & Molecular Biology,
Dalhousie University (07/2008-06/2012)

Assistant Professor

Department of Biochemistry & Molecular Biology,
Dalhousie University (09/2003-06/2008)

Graduate Coordinator

Department of Biochemistry & Molecular Biology,
Dalhousie University (2010-2015)

Associate Graduate Coordinator

Department of Biochemistry & Molecular Biology,
Dalhousie University (2006-2010)

Editorial Board Member

Current Biology (2012-present)
BMC Biology (2009-present)
Environmental Microbiology (2014-15, 2020-present)
Eukaryotic Cell (now *mSphere*) (2013-2016)

Associate Editor

Genome Biology & Evolution (2010-present)
Molecular Phylogenetics & Evolution (2010-2011)
Journal of Phycology (2009-2010)
Phycological Research (2007-2010)

RESEARCH AREAS

Comparative genomics, microbial diversity,
molecular evolution

EDUCATION

Killam Postdoctoral fellow, Department of Botany
University of British Columbia, Vancouver, 2001-2003

Ph.D. in Biochemistry & Molecular Biology
Dalhousie University, Halifax, Nova Scotia, May 2001

B.Sc. (with 1st class Honours) in Biology
Dalhousie University Halifax, Nova Scotia, April 1997

PERSONAL

Birth Date: 29 August 1971. Canadian Citizen.

SCHOLARSHIPS, FELLOWSHIPS, AWARDS AND DISTINCTIONS

- 2024 **Canadian Science Publishing Senior Investigator Award**, Canadian Soc. for Mol. Biosciences
- 2023 **Mentorship of Faculty Award**, Faculty of Medicine, Dalhousie University
- 2022 **Elected Fellow**, Royal Society of Canada (lifetime appointment)
- 2021 **Legacy Award**, Dalhousie University (in recognition of innovative and impactful research)
- 2021-2027 **Arthur B. McDonald Chair of Research Excellence** (\$50,000/year), Dalhousie University
- 2020 **Academic Leadership Certificate**, Dalhousie University
- 2020 **Max Forman Senior Research Prize** (\$10,000), Dalhousie Medical Research Foundation, Dalhousie University
- 2019 **Miescher-Ishida Prize**, International Society of Endocytobiology and the University of Tübingen (“To acknowledge outstanding scientists who have made unique findings in the field of endocytobiology or contributed to the development of this science”)
- 2016-2023 **Elected Member**, Royal Society of Canada, College of New Scholars, Artists and Scientists
- 2016-2021 **University Research Professorship**, Dalhousie University (\$1,000 annually)
- 2015-2016 **Vice President**, International Society of Protistologists
- 2015 **Elected Fellow**, American Academy of Microbiology (American Society for Microbiology)
- 2014 **Seymour H. Hutner Young Investigator Prize** (\$1,000), International Society of Protistologists (“Awarded annually to an outstanding scientist in the field of protozoology who is recognized on an international level”)
- 2012 **Visiting By-Fellow**, Churchill College, University of Cambridge (July-December 2012)
- 2012-2017 **Senior Fellow**, Canadian Institute for Advanced Research (Integrated Microbial Biodiversity)
- 2007-2011 **Fellow**, Canadian Institute for Advanced Research (Integrated Microbial Biodiversity)
- 2008 **Award of Excellence in Basic Research** (\$7,000), Dalhousie Medical Research Foundation, Dalhousie University
- 2008-2013 **New Investigator Award**, Canadian Institutes of Health Research (5-yr salary award)
- 2004 **New Investigator Award** (\$50,000), Dalhousie Medical Research Foundation
- 2003-2007 **Scholar**, Canadian Institute for Advanced Research, Program in Evolutionary Biology
- 2003-2006 **Investigator**, Genome Canada / Genome Atlantic (external salary support 2003-06)
- 2001-2003 **Killam Postdoctoral Fellow**, University of British Columbia

RESEARCH GRANTS AND SUPPORT Total grant capture: ~\$4.5 million CDN (not including team grants)

- 2024-2027 **NSERC PromoScience Grant**—“*MicroScope Observatory Program*” ~\$50,000/yr for 3 years
PI—J. M. ARCHIBALD (Collaborators: Discovery Centre staff and ICG members).
- 2023-2026 **Gordon and Betty Moore Foundation**—“*Symbiosis Methods Development*”
\$1,856,417 USD (\$2,480,250 CDN) over 3 years
PI—J. M. ARCHIBALD (Co-investigators: A. Roger, G. Hesketh, E. Bertrand, and A Simpson, Dalhousie; J. Collier and J. Rest, Stony Brook; J. Jerlström-Hultqvist, Uppsala)
- 2023-2024 **Ocean Frontier Institute, seed funding**—“*Towards a quantitative metabarcoding approach for eDNA-based environmental assessment of whole ecosystems*”
\$30,000 CDN Co-applicant with Julie LaRoche (PI) and Morgan Langille
- 2023-2027 **CFI-John R. Evans Leaders Fund**—“*Nanopore genomics for microbiome discovery research*” \$506,348
CDN PI—J. M. ARCHIBALD
- 2021-2022 **Gordon and Betty Moore Foundation and the Wellcome-Sanger Institute (Aquatic Symbiosis Genomics Initiative)**—“*Evolution of new symbioses in single-celled eukaryotes*” \$12,500 USD
PI—J. M. ARCHIBALD
- 2020-2021 **Genome Atlantic COVID-19 Regional Genomics Initiative**—“*Massive high throughput COVID-19 testing using next generation sequencing (NGS): addressing the urgent need for widescale testing capacity within communities*” ~\$178,750
Co-applicant with Nikhil Thomas (PI) and Morgan Langille

- 2020-2024 **Gordon and Betty Moore Foundation**—“*Symbiosis Model Systems—Genetics and genomics of amoebae*” ~\$652,569 CDN over 3.5 years PI—J. M. ARCHIBALD
- 2019-2024 **NSERC Discovery Grant**—“*Gene transfer in microbial eukaryotes*” ~\$69,000/yr for 5 years PI—J. M. ARCHIBALD
- 2019-2022 **Genome Canada Emerging Issues and Opportunities Grant**—“*Lyme Disease in NS: The influence of strain variation on disease*”. \$863,000 over 2 years (~86,000 to Archibald lab)
Co-applicant with Todd Hatchette (PI), Nicholas Ogden, Robbin Lindsay, Jason Leblanc, Shelly McNeil, Ian Davis, Peter Green, Volodko Bakowsky, and Antonia Dibernardo
- 2017-2019 **Gordon and Betty Moore Foundation**—“*Laboratory systems for studying gene transfer in eukaryotes*” \$368,375 CDN over 2.5 years PI—J. M. ARCHIBALD
- 2014-2019 **NSERC Discovery Grant**—“*Endosymbiosis and genome evolution in eukaryotic microbes*” \$85,000 / year for 5 years PI—J. M. ARCHIBALD
- 2012-2017 **Canadian Institute for Advanced Research**—“*Integrated Microbial Biodiversity Program*” ~\$24,000 / year for 5 years PI—J. M. ARCHIBALD
- 2011-2016 **CIHR Operating Grant**—“*Endosymbiosis, parasitism, and genome evolution*” ~\$115,000 / year for 5 years PI—J. M. ARCHIBALD
- 2007-2016 **Tula Foundation / Dalhousie Centre for Comparative Genomics & Evolutionary Bioinformatics (CGEB)**—equivalent of one postdoctoral fellow salary (\$44,000/year) for 5 years plus research allowance (\$20,000/year) Co-applicant with A. J. Roger, PI
- 2013 **NSERC Equipment Grant – Research Tools and Instruments**—“*An in-house high-throughput DNA sequencing instrument*”: \$147,455
Co-applicant with C. Slamovits (PI), A. J. Roger and A. G. B. Simpson
- 2011 **CIHR & NS/CIHR Regional Partnership Program Operating Grant** —“*Endosymbiosis, parasitism, and genome evolution*”: \$37,824 over 3 months PI—J. M. ARCHIBALD
- 2009-2014 **NSERC Discovery Grant (#283335-09)**—“*Genome and proteome evolution in nucleomorph-containing algae*”: \$34,000/year for 5 years PI—J. M. ARCHIBALD
- 2008-2011 **CIHR & NS/CIHR Regional Partnership Program Operating Grant**—“*The causes and consequences of genome reduction in eukaryotes*”: \$100,000 year 1, \$76,615 years 2/3
PI—J. M. ARCHIBALD
- 2008-2010 **NSERC Special Research Opportunities Program Grant**—“*Impact of secondary endosymbiosis on eukaryotic genome evolution*”: \$113,050 year 1, \$106,050 year 2
PI—J. M. ARCHIBALD, Co-applicant M. Gray
- 2007-2008 **CIHR Operating Grant (MOP-8156)**—“*The causes and consequences of genome reduction in eukaryotes*”: \$100,000 for 1 year
PI—J. M. ARCHIBALD
- 2007-2012 **Canadian Institute for Advanced Research, Program in Integrated Microbial Biodiversity**—annual funds in support of research: \$25,000/year for 5 years
PI—J. M. ARCHIBALD (CIFAR Scholar (2007/8) and Fellow (2009-12))
- 2007 **NSERC Equipment Grant – Research Tools and Instruments**—“*An Xserve computer cluster for phylogenetic and comparative genomic analyses*”: \$55,591 Co-applicant with A. J. Roger, PI

- 2006-2010 **US Department of Energy’ Joint Genome Institute (JGI) Community Sequencing Program (CSP_LOI_19044)**—“*Impact of Secondary Endosymbiosis on Genome Evolution and Cell Biology: A Cryptomonad and a Chlorarachniophyte Nuclear Genome*”: ~980,000 US in-kind PI—J. M. ARCHIBALD
- 2006-2007 **Canada Foundation for Innovation (CFI) Institutional Infrastructure Operating Fund (IOF)**—“*Laboratory for microbial genome analysis*”: \$37,442 PI—J. M. ARCHIBALD
- 2006-2007 **CIHR Operating Grant (IG-81648)**—“*The causes and consequences of genome reduction in eukaryotes*”: \$100,000 for 1 year PI—J. M. ARCHIBALD
- 2004-2008 **NSERC Discovery Grant (#283335-04)**—“*Genome reduction in eukaryotes*”: \$36,390/yr for 5 yrs PI—J. M. ARCHIBALD
- 2003-2006 **Genome Atlantic – Genome Canada Large-Scale Project**—“*A comprehensive understanding of prokaryotic genome evolution and diversity: from genomics to metagenomics*”: ~\$10,500,000 over 4 years PI—W. F. Doolittle and 5 others
- 2003-2004 **CFI New Opportunities Fund**—“*Laboratory for microbial genome analysis*”: \$312,020 PI—J. M. ARCHIBALD

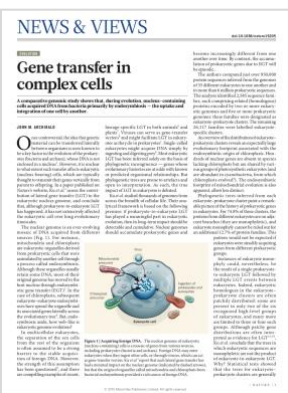
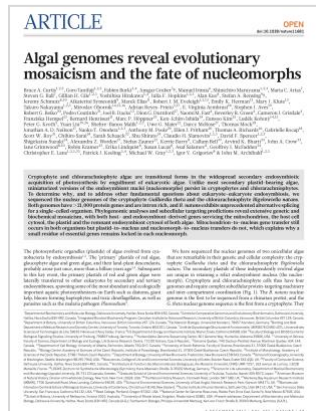
MOST SIGNIFICANT CONTRIBUTIONS TO SCIENCE

I—Curtis, B. A., [71 authors] & Archibald, J. M. 2012. Algal genomes reveal evolutionary mosaicism and the fate of nucleomorphs. *Nature*. 492, 59-65. *Role: PI, supervisor, project coordinator and senior author.* **417 CITATIONS**

I led a five-year international project to sequence the nuclear genomes of two important marine microbes, **coordinating the research efforts of >70 scientists at 15 institutions**. The project was supported by an in-kind contribution of ~\$980,000 US from the DOE-Joint Genome Institute and an NSERC Special Research Opportunities Grant. The research generated numerous publications, including a full-length article (and accompanying ‘News & Views’) in the pages of *Nature*. These genome sequences represent a **significant community resource** and are widely used by biologists for both basic and applied research.

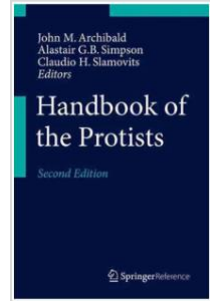
II—Genome biology and evolution in eukaryotes

Throughout my career I have made substantial contributions to our understanding of the evolution of eukaryotic cells and their genomes. As a junior scientist I was lead author on the first comprehensive demonstration that lateral gene transfer (LGT)—the exchange of DNA across species bounds—occurs in eukaryotes (Archibald et al. 2003. *PNAS*; **297 CITATIONS**), and my research team has published numerous high-impact publications on this topic since (e.g., Khan et al. 2007. *Mol. Biol. Evol.*; **117 CITATIONS**). I am regularly asked to contribute commentaries, review articles, hypothesis papers, and book reviews on the topic, and have done so for top-tier journals including *Nature*, *Science*, *PNAS* and *Current Biology*. We have published dozens of ‘omics-enabled papers on diverse topics such as early land plant evolution (de Vries et al. 2018 *PNAS*; **132 CITATIONS**), endosymbiosis-associated genome reduction (Lane et al. 2007 *PNAS*; **183 CITATIONS**), and the evolution of mobile genetic elements (Gallot-Lavallée et al. 2023. *PNAS*). We have also used comparative genomics to describe fundamentally new groups of microbes such as the ‘rappemonads’ (algae) (Kim et al. 2011. *PNAS*; **107 CITATIONS**) and ‘mirusviruses’ (Collier et al. *Curr. Biol.* 2023).



III—Handbook of the Protists (2nd edition). 2017. **Archibald, J.M.**, Simpson, A.G.B, & Slamovits, C. (Eds.). Springer. 44 chapters, 1657 pages. ISBN: 978-3-319-28147-6. *Role: Editor-in-Chief.*

Between 2013 and 2017 I led an international effort to publish a fully revised second edition of Lynn Margulis's classic 1990 text on the diversity of single-celled eukaryotes (protists). This 44-chapter, 2-volume set—published in hardback and online—now serves as *the* resource for individuals teaching and researching protist biology. **'The Handbook' has been downloaded ~230,000 times since it was published in 2017.**

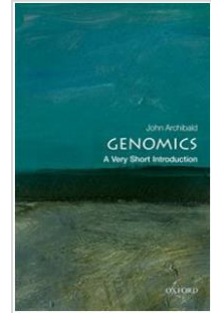
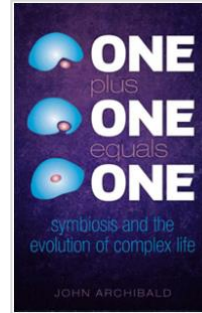


IV—Popular science writing

Archibald, J. M. 2014. One plus one equals one: symbiosis and the evolution of complex life. *Oxford University Press*. 224 pp. ISBN: 978-0-19-966059-9. (paperback published 2016) **124 CITATIONS**

Archibald, J. M. 2018. Genomics: a very short introduction. *Oxford University Press*. 160 pp. ISBN: 978-0-19-878620-7.

I am committed to the process of communicating science and research to non-specialist audiences. In 2014 I published a popular-press book chronicling how the science of DNA has revolutionized our understanding of the microbial world and the origins of mitochondria and chloroplasts. The paperback has since been published in four different languages. More recently, I wrote a book on genomics for OUP's *Very Short Introduction* series. The book is for the intelligent lay reader, as well as students and professionals wanting a broad overview of the science of genomics and where the field is headed.



PUBLICATIONS

Google Scholar statistics: ~12,500 career citations (~5,600 since 2019)
h-index=59, i10-index=147; trainees underlined.

IR *Invited and peer-reviewed contribution* **IC** *Invited contribution*

189. Moog, D., Curtis, B. A., David, V., Filloramo, G. V., Gallot-Lavallée, L., Herman, E., McPhee, M., Nakayama, T., Sibbald, S. J., Dacks, J. B., Field, M. C., Kelly, S., Levine, T. P. & **Archibald, J. M.** Comparative genomics of *Perkinsela* spp. endosymbionts of paramoebae reveals streamlined cell biology and transposable element dynamics. In preparation. *Role: senior author and supervisor.*

188. Tashyreva, D., Drahomíra, F., Lukeš, J., **Archibald, J. M.**, Oatley, G., Sinclair, E., Aunin, E., Gettle, N., Santos, C., Paulini, M., McKenna, V., O'Brien, R., Niu, H., Wellcome Sanger Institute Tree of Life Management, Samples and Laboratory Team, Wellcome Sanger Institute Scientific Operations: Sequencing Operations, Wellcome Sanger Institute Tree of Life Core Informatics Team, EBI Aquatic Symbiosis Genomics Data Portal Team, Aquatic Symbiosis Genomics Project Leadership. 2024. The genome sequences of the diplomemid protist *Flectonema* sp. DT1601 (Eukaryota; Discoba; Euglenozoa; Diplonemea; Diplonemidae) and its bacterial endosymbiont *Ca. Syngnamydia salmonis* (Bacteria, PVC Group, Chlamydiota, Chlamydiia, Parachlamydiales, Simkaniaceae). *Wellcome Open Res.* In preparation. *Role: Project coordinator and co-author.*

187. Tashyreva, D., Drahomíra, F., Lukeš, J., **Archibald, J. M.**, Oatley, G., Sinclair, E., Aunin, E., Gettle, N., Santos, C., Paulini, M., McKenna, V., O'Brien, R., Niu, H., Wellcome Sanger Institute Tree of Life Management, Samples and Laboratory Team, Wellcome Sanger Institute Scientific Operations: Sequencing Operations, Wellcome Sanger Institute Tree of Life Core Informatics Team, EBI Aquatic Symbiosis Genomics Data Portal Team, Aquatic Symbiosis Genomics Project Leadership. 2024. The genome sequences of the diplomemid protist *Diplonema japonicum* yPF1604 (Eukaryota; Discoba; Euglenozoa; Diplonemea; Diplonemidae) and its bacterial endosymbiont *Ca. Cytomitobacter primus* and *Nesciobacter abundans* (Bacteria, Alphaproteobacteria; Rhodospirillales; Holosporaceae). *Wellcome Open Res.* In preparation. *Role: Project coordinator and co-author.*

186. Tashyreva, D., Drahomíra, F., Lukeš, J., **Archibald, J. M.**, Oatley, G., Sinclair, E., Aunin, E., Gettle, N., Santos, C., Paulini, M., McKenna, V., O'Brien, R., Niu, H., Wellcome Sanger Institute Tree of Life Management, Samples and Laboratory Team, Wellcome Sanger Institute Scientific Operations: Sequencing Operations, Wellcome Sanger Institute Tree of Life Core Informatics Team, EBI Aquatic Symbiosis Genomics Data Portal Team, Aquatic Symbiosis Genomics Project Leadership. 2024. The genome sequences of the diplomonad protist *Rhynchopus euleeides* YPF1915 and its bacterial endosymbiont *Ca. Syngnamydia salmonis* (Bacteria, PVC Group, Chlamydiota, Chlamydiia, Parachlamydiales, Simkaniaceae). *Wellcome Open Res.* In preparation. *Role: Project coordinator and co-author.*
185. Sibbald, S. J., Lawton, M., Maclean, C., Curtis, B. A., Roger, A. J., & **Archibald, J. M.** Chromosome-scale genome assemblies reveal pan-genome and gene flow in pelagophyte algae. In preparation. *Role: senior author and supervisor.*
184. Kantor, E. J. H., Robicheau, B., **Archibald, J. M.**, and LaRoche, J. targeted metagenomics expands known diversity of the cyanobacterial diazotroph UCYN-A and its algal host. In preparation. *Role: author and co-supervisor.*
183. Chung, D., Matar, S., and **Archibald, J. M.** CRISPR-Cas9 gene editing in the heterotrophic protist *Acanthamoeba castellanii*. In preparation. *Role: senior author and supervisor.*
182. Schvarcz, C. R., Stancheva, R., Turk-Kubo, K. A., Wilson, S. T., Zehr, J. P., Edwards, K. F., Steward, G. F., and **Archibald, J. M.**, Oatley, G., Sinclair, E., Aunin, E., Gettle, N., Santos, C., Paulini, M., McKenna, V., O'Brien, R., Niu, H., Wellcome Sanger Institute Tree of Life Management, Samples and Laboratory Team, Wellcome Sanger Institute Scientific Operations: Sequencing Operations, Wellcome Sanger Institute Tree of Life Core Informatics Team, EBI Aquatic Symbiosis Genomics Data Portal Team, Aquatic Symbiosis Genomics Project Leadership. 2024. The genome sequences of the chain-forming marine diatom *Epithemia catenata* (Schvarcz, Stancheva & Steward, 2022) and its nitrogen-fixing cyanobacterial endosymbiont. *Wellcome Open Res.* Under review. *Role: Project coordinator and co-author.*
181. Schvarcz, C. R., Stancheva, R., Turk-Kubo, K. A., Wilson, S. T., Zehr, J. P., Edwards, K. F., Steward, G. F., **Archibald, J. M.**, Oatley, G., Sinclair, E., Aunin, E., Gettle, N., Santos, C., Paulini, M., McKenna, V., O'Brien, R., Niu, H., Wellcome Sanger Institute Tree of Life Management, Samples and Laboratory Team, Wellcome Sanger Institute Scientific Operations: Sequencing Operations, Wellcome Sanger Institute Tree of Life Core Informatics Team, EBI Aquatic Symbiosis Genomics Data Portal Team, Aquatic Symbiosis Genomics Project Leadership. 2024. The genome sequences of the marine diatom *Epithemia pelagica* strain UHM3201 (Schvarcz, Stancheva & Steward, 2022) and its nitrogen-fixing, endosymbiotic cyanobacterium. *Wellcome Open Res.* Under review. *Role: Project coordinator and co-author.*
180. Bougon, J., Kadijk, E.C., Gallot-Lavallée, L., Curtis, B.A., Landers, M., **Archibald, J.M.** & Khapersky, D. A. Influenza A virus NS1 effector domain is required for PA-X mediated host shutoff in infected cells. BioRxiv preprint: doi.org/10.1101/2023.10.02.560421 In Press, *J. Virol.* *Role: supervisor and co-author.*
179. Jerlström-Hultqvist, J., Gallot-Lavallée, L., Salas-Leiva, D., Curtis, B. A., Pašuthová, K., Čepička, I., Stairs, C., Pipaliya, S., Dacks, J., **Archibald, J. M.**, & Roger, A. J. 2023. A unique symbiosome in an anaerobic single-celled eukaryote. BioRxiv preprint: doi.org/10.1101/2023.03.03.530753. Under revision, *Nature Comm.* *Role: supervisor and co-author.*
178. Feng X, Zheng J, Irisarri I, Yu H, Zheng B, Ali Z, de Vries S, Keller J, Fürst-Jansen JMR, Dadras A, Zegers JMS, Rieseberg TP, Ashok AD, Darienko T, Bierenbroodspot MJ, Gramzow L, Petroll R, Haas FB, Fernandez-Pozo N, Nousias O, Li T, Fitzek E, Grayburn WS, Rittmeier N, Permann C, Rümpler F, **Archibald JM**, Theißen G, Mower JP, Lorenz M, Buschmann H, von Schwartzberg K, Boston L, Hayes RD, Daum C, Barry K, Grigoriev IV, Wang X, Li FW, Rensing SA, Ari JB, Keren N, Mosquna A, Holzinger A, Delaux PM, Zhang C, Huang J, Mutwil M, de Vries J, Yin Y.

2024. Chromosome-level genomes of multicellular algal sisters to land plants illuminate signaling network evolution. *Nature Genet.* In press. *Role: co-author.*
177. **Archibald, J.M.** 2024. Symbiotic revolutions at the interface of genomics and microbiology. *PLOS Biol.* 22:e3002581. **IC**
176. Gallot-Lavallée, L., Jerlström-Hultqvist, J., Stairs, C. W., Cepicka, I., Roger, A. J., & **Archibald, J. M.** 2023. Massive intein content in three *Anaeramoeba* genomes reveals new aspects of intein mobility in eukaryotes. *Proc. Natl. Acad. Sci. USA.* 120, 49: e2306381120. *Role: Senior author and supervisor.*
175. Collier, J. L., Rest, J. S., Lavington, E., Gallot-Lavallée, L., Kuo, A., Jenkins, J., Pangilinan, J., Daum, C., Grigoriev, I. V., Filloramo, G. F., Curtis, B. A., Vanclova, A., & **Archibald, J. M.** 2023. The protist *Aurantiochytrium* has universal subtelomeric rDNAs and is a host for mirusviruses. *Curr. Biol.* 33, 5199-5207. *Role: supervisor and co-author.* **Subject of DISPATCH** (Aylward F.O. 2023. *Curr. Biol.* 33, R1222-R1245)
174. Rius, M., Rest, J. S., Filloramo, G., Vanclova, A., **Archibald, J. M.**, & Collier, J.L. 2023. Horizontal gene transfer and fusion spread carotenogenesis among diverse heterotrophic protists. *Genome. Biol. Evol.* 15(3): evad029. doi.org/10.1093/gbe/evad029. *Role: author and supervisor.*
173. Zhang, X., Hu, Y., Cheng, Z. & **Archibald, J. M.** 2023. HSDecipher: A pipeline for comparative genomic analysis of highly similar duplicate genes in eukaryotic genomes. *STAR Protocols.* 4, 102014. *Role: senior author and supervisor.*
172. Kim, J. I., Tanifuji, G., Minseok, J., Shin, W., & **Archibald, J. M.** 2022. Gene loss, pseudogenization and genome reduction in non-photosynthetic species of *Cryptomonas* (Cryptophyceae) revealed by comparative nucleomorph genomics. *BMC Biol.* 20:227. *Role: Senior author and supervisor.*
171. Hess, S., Williams, S., Busch, A., Irisarri, I., Delwiche, C.F., de Vries, S., Darienko, T., Roger, A.J., **Archibald, J. M.**, Buschmann, H., von Schwartzberg, K., & de Vries, J. 2022. A phylogenomically informed five-order system for the closest relatives of land plants. *Curr. Biol.* 32, 1-10. *Role: co-author.*
170. Matthey-Doret*, C., Colp*, M. J., Escoll Guerrero, P., Thierry, A., Curtis, B. A., Sarrain, M., Gray, M.W., Lang B.F., **Archibald, J. M.**, Buchrieser, C., & Kozsul, R. 2022. Chromosome-scale assemblies of *Acanthamoeba castellanii* genomes provide insights into *Legionella pneumophila* infection-related chromatin re-organization. *Genome Res.* 32, 1698-1710. *Role: co-Senior author and supervisor.* *Co-first author.
169. Kim, J. I., Jo, B. Y., Park, M. G., Yoo, Y. D., Shin, W., & **Archibald, J. M.** 2022. Evolutionary dynamics and lateral gene transfer in raphidophycean plastid genomes. *Frontiers Plant Sci.* 13, doi:10.3389/fpls.2022. 896138. *Role: Senior author and supervisor.*
168. Zhang, X., Hu, Y., Eme, L., Maruyama, S., Eveleigh, R. J. M., Curtis, B. A., Sibbald, S. J., Hopkins, J. F., Filloramo, G. V., van Wijk, K., & **Archibald, J. M.** 2022. TreeTuner: A pipeline for minimizing redundancy and complexity in large phylogenetic datasets. *STAR Protocols.* 3, 101175. *Role: senior author and supervisor.*
167. Lawniczak, M. K. N., Durbin, R., Flicek, P., Lindblad-Toh, K., Wei, X., **Archibald, J. M.**, Baker, W. J., Belov, K., Blaxter, M. L., Marques Bonet, T., Childers, A. K., Coddington, J. A., Crandall, K. A., Crawford, A. J., Davey, R. P., Di Palma, F., Fang, Q., Haerty, W., Hall, N., Hoff, K. J., Howe, K., Jarvis, E. D., Johnson W. E., Johnson, R. N., Kersey, P. J., Liu, X., Lopez, J. V., Myers, E. W., Pettersson, O. V., Phillippy, A. M., Poelchau, M. F., Pruitt, K. D., Rhie, A., Castilla-Rubio, J. C., Sahu, S. K., Salmon, N. A., Soltis, P. S., Swarbreck, D., Thibaud-Nissen, F., Wang, S., Wegrzyn, J. L., Zhang, G., Zhang, H., Lewin, H. A., Richards, S. 2022. Standards recommendations for the Earth BioGenome Project. *Proc. Natl. Acad. Sci. USA.* 119, 4 e2115636118. *Role: Co-author.* **IR**

166. Blaxter, M., **Archibald, J. M.**, Childers, A. K., Coddington, J. A., Crandall, K. A., Di Palma, F., Durbin, R., Edwards, S. V., Graves, J. A. M., Hackett, K. J., Hall, N., Jarvis, E. D., Johnson, R. N., Karlsson, E. K., Kress, W. J., Kuraku, S., Lawniczak, M. K. N., Lindblad-Toh, K., Lopez, J. V., Moran, N.A., Robinson, G. E., Ryder, O. A., Shapiro, B., Soltis, P. S., Warnow, T., Zhang, G., & Lewin, H. A. 2022. Why sequence all eukaryotes? *Proc. Natl. Acad. Sci. USA*. 119, 4 e2115636118. *Role: Co-author. IR*
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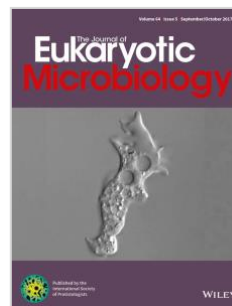
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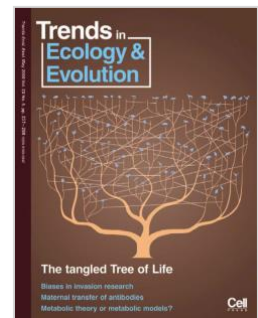
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MEETING PRESENTATIONS AND PUBLISHED ABSTRACTS (*presenter, trainees underlined)

Chung*, D. Matar, S., and **Archibald, J. M.** 2023. CRISPR-Cas9 gene editing in the heterotrophic protist *Acanthamoeba castellanii*. Institute for Comparative Genomics, Biodiversity Symposium, Dalhousie University, Nova Scotia, Canada. (poster)

Sibbald*, S. J., Maclean, C., Lawton, M., Roger, A. J., and **Archibald, J. M.** 2023. The pan-genome concept and strain level variation in microbial eukaryotes: insights from pelagophyte algae. Institute for Comparative Genomics, Biodiversity Symposium, Dalhousie University, Nova Scotia, Canada. (poster)

Matar*, S., Chung, D., Gallot-Lavallée, L., Rest, J. S., Collier, J. L., and **Archibald, J. M.** 2023. Evidence for mirusviruses in the thraustochytrid protist *Aurantiochytrium limacinum*. Institute for Comparative Genomics, Biodiversity Symposium, Dalhousie University, Nova Scotia, Canada. (poster)

Tymoshenko*, D., Zhang, X., McCracken, G. R., Dlutek, M., Dibernardo, A., Loomer, C., Ogden, N., LeBlanc, J. J., Hatchette, T., Stringer, E., & **Archibald, J. M.** 2023. Comparative genomics of Lyme Disease agent *Borrelia*

burgdorferi in Nova Scotia. Institute for Comparative Genomics, Biodiversity Symposium, Dalhousie University, Nova Scotia, Canada. (poster)

Sangster, S., Phelan, E., Chung, D., Dunn, K., Kantor E., Mastrangelo, B., Baldwin, I., Barkhouse, K., Blais, C., Brask, N., Breglia, S., Haro, R., Hosmer, M., Maclean, C., Madaan, A., Martijn, J., Matar, S., MacMillan, N., McCarthy, C., Mora Collazos, A., Myles, S., Roberts, M., Rowland, E., Shao, J., Stevens-Green, R., Tymoshenko, D., Weston, L., Zhao, D., Comeau, A. M., Dlutek, M., Rohde, J. R., Roger, A. J., Sterling, S. M., Slamovits, C. H., Westwood, A. R., Bertrand, E. M., LaRoche, J., Langille, M. G. I., Simpson, A. G. B., **Archibald*, J. M.** 2023. Microbial biodiversity at the Harrison Lewis Coastal Discovery Centre (Nova Scotia, Canada). Institute for Comparative Genomics, Biodiversity Symposium, Dalhousie University, Nova Scotia, Canada. (poster)

Gallot-Lavallée, L.*, Collier, J. L., Rest, J.S., Lavington, E., Kuo, A., Jenkins, J., Pangilinan, J., Daum, C., Grigoriev, I. V., Filloramo, G. F., Curtis, B. A., Novák Vanclová, A. M. G., Plott, C., **Archibald, J. M.** 2023. Stand-alone and integrated ‘Mirusviricota’-like genomic elements in a thraustochytrid protist. Institute for Comparative Genomics, Biodiversity Symposium, Dalhousie University, Nova Scotia, Canada. (poster)

Hosmer*, M., Filloramo, G. V., Curtis, B. A., **Archibald, J. M.**, & Rohde, J. R. 2023. *Caballeronia guntew*, a novel forest soil-dwelling bacterium with a complex genome architecture. Institute for Comparative Genomics, Biodiversity Symposium, Dalhousie University, Nova Scotia, Canada. (poster)

Tymoshenko*, D., Filloramo, G. V., Gallot-Lavallée, L., Fennessy, E., Spinney, K., Dlutek, M., Zhang, X., Comeau, A. M., Langille, M. G., & **Archibald J. M.** 2023. Genomic and metagenomic investigation of the *in vitro* microbiome of *Paramoeba* spp. Canadian Society of Microbiologists, Annual Meeting, Dalhousie University, Nova Scotia, Canada. (poster)

Gallot-Lavallée, L.*, Collier, J. L., Rest, J.S., Lavington, E., Kuo, A., Jenkins, J., Pangilinan, J., Daum, C., Grigoriev, I. V., Filloramo, G. F., Curtis, B. A., Novák Vanclová, A. M. G., Plott, C., **Archibald, J. M.** 2023. Stand-alone and integrated ‘Mirusviricota’-like genomic elements in a thraustochytrid protist. 11th Aquatic Virus Workshop, Québec, Canada. (poster)

Blais*, C., Colp, M. J., Wuotila, J., Archibald, J. M. 2023. *Sub-telomeric regions in Acanthamoeba genomes: viral gene graveyards or springboards for integration?* 11th Aquatic Virus Workshop, Québec, Canada (May 23-27). (oral presentation).

L. Gallot-Lavallée*, J.L. Collier, J.S. Rest, E. Lavington, A. Kuo, J. Jenkins, J. Pangilinan, C. Daum, I. V. Grigoriev, G. F. Filloramo, B. A. Curtis, Anna M. G. Novák Vanclová, & **J. M. Archibald**. 2023. Stand-alone and integrated ‘Mirusviricota’-like genomic elements in a thraustochytrid protist. Canadian Society of Microbiologists, Annual Meeting, Dalhousie University, Nova Scotia, Canada. (poster)

Zhang, X.* & **Archibald, J. M.** 2022. Don’t waste it: tidy up your bioinformatics work into appropriate publications. Bioinformatics Community Conference, Madison, Wisconsin, USA. (Virtual talk)

Colp, M. J.*, Matthey-Doret, C., Blais, C., Escoll, P., Thierry, A., Morreau, P., Curtis, B. A., Sahr, T., Sarrasin, M., Gray, M. W., Lang, B. F., Buchrieser, C., Koszul, R., & **Archibald, J. M.** 2022. A new, high quality *Acanthamoeba castellanii* reference genome sequence for studying foreign DNA acquisition. EMBO workshop on comparative genomics of unicellular eukaryotes: Interactions and symbioses, Spain. (Poster)

Zhang, X.* & **Archibald, J. M.** 2022. Using bioinformatics tools to analyze, categorize and visualize highly similar duplicates in eukaryotic genomes. Microbial Genome Diversity Workshop, Halifax, NS, Canada. (Poster)

- Kim*, J. I., Jo, B. Y., Park, M. G., Yoo, Y. D., Shin, W., & **Archibald, J. M.** 2022. Evolutionary history of Raphidophyceae plastid genomes via lateral gene transfer. International Seaweeds Symposium, Korea. (poster)
- Filloramo*, G. V., Comeau, A. M., Fennessy, E., Gallot-Lavallee, L., Spinney, K., Dlutek, M., **Archibald, J. M.**, Morgan G Langille. 2022. Integrated Microbiome Resource: recent advances in microbiome sequencing & bioinformatics. Cold Spring Harbor Laboratories, Microbiome Symposium, New York. (poster)
- Sibbald*, S. J., Lawton, M., Roger, A.J., & **Archibald, J.M.** 2021. Insight into pelagophytes: novel algal genomes and strain level genome variation in the harmful algal bloom-causing species *Aureococcus anophagefferens*. International Phycological Congress, Chile. (virtual talk)
- Sibbald*, S. J., Lawton, M., Roger, A.J., & **Archibald, J.M.** 2021. Insight into pelagophytes: novel algal genomes and strain level genome variation in the harmful algal bloom-causing species *Aureococcus anophagefferens*. Annual Meeting of the International Society for Molecular Biology & Evolution, Manchester, UK. (virtual poster)
- Gallot-Lavallée*, L., Jerlström-Hultqvist, J., Stairs, C.W., Cepicka, I., Roger, A.J. & **Archibald, J. M.** 2019. Massive, unprecedented intein content in two *Anaeramoeba* genomes reveals new aspects of intein mobility in eukaryotes. Annual Meeting of the International Society for Molecular Biology & Evolution, Manchester, UK. (poster)
- Gallot-Lavallée*, L., Jerlström-Hultqvist, J., Stairs, C.W., Cepicka, I., Roger, A.J. & **Archibald, J. M.** 2019. Massive, unprecedented intein content in two *Anaeramoeba* genomes reveals new aspects of intein mobility in eukaryotes. VIII ECOP - ISOP joint meeting, Rome, Italy. (talk)
- Gallot-Lavallée*, L., Blanc, G., Roger, A.J. & **Archibald, J.M.** 2019. Bioinformatic analysis of *Halocafeteria seosinensis* virophages and Polinton-like elements. Halifax Marine Microbes Mini Symposium, Halifax, Canada. (talk)
- Sibbald*, S. J., Roger, A.J., & **Archibald, J.M.** 2019. Oxford Nanopore sequencing and eukaryotic pan-genomes – strain level genome variation in the harmful algal bloom causing species *Aureococcus anophagefferens*. Annual Meeting of the International Society for Molecular Biology & Evolution, Manchester, UK. (talk)
- Sibbald*, S. J., Roger, A.J., & **Archibald, J.M.** 2019. Oxford Nanopore sequencing and eukaryotic pan-genomes – strain level genome variation in the harmful algal bloom causing species *Aureococcus anophagefferens*. Halifax Marine Microbes Mini Symposium, Halifax, Canada. (talk)
- Filloramo*, G.V., Curtis, B.A. & Archibald, J.M. 2019. Fine-scale genomic investigation reveals long terminal repeat retrotransposon activity in the marine diatom *Phaeodactylum tricornutum*. Annual Meeting of the International Society for Molecular Biology & Evolution, Manchester, UK. (talk and poster)
- Colp*, M.J., Curtis, B.A. & **Archibald, J. M.** 2019. Nanopore sequencing of the *Acanthamoeba castellanii* genome: toward a model for eukaryote lateral gene transfer. SMBE, Manchester, UK. (talk)
- Colp*, M.J., Curtis, B.A. & **Archibald, J. M.** 2019. Development of an experimental model for studying lateral gene transfer in eukaryotes. PREP Graduate Student Research Day, Halifax, Canada. (poster)
- Sibbald*, S.J. & Archibald, J. M. 2018. A genomic investigation of the plastid-lacking cryptomonad *Goniomonas avonlea*: insights into the evolution of complex plastids and Cryptista. International Society of Protistologists / Phycological Society of America, Vancouver, Canada. (talk)
- de Vries*, J., Curtis, B.A., Gould, S.B. & **Archibald, J. M.** 2018. Early plant evolution: stress signalling circuits in the algal ancestors of land plants. Plant Biology 2018: Montreal, Canada. (poster)

- de Vries*, J., Curtis, B.A., Gould, S.B. & **Archibald, J. M.** 2018. Signatures of embryophytic stress signaling circuits in the algal progenitors of land plants. EMBO Workshop: New shores in land plant evolution: Lisbon, Portugal. (poster)
- de Vries*, J., Curtis, B.A., Gould, S.B. & **Archibald, J. M.** 2018. Early plant evolution: stress signalling circuits in the algal ancestors of land plants. Plant Biology 2018: Montreal, Canada. (talk)
- de Vries*, J., Curtis, B.A., Gould, S.B. & **Archibald, J. M.** 2018. Plastid-mediated stress response signalling in the algal progenitors of land plants. International Plant and Animal Genome Conference XXVI: San Diego, CA, USA. (talk)
- Filloramo*, G.V., Curtis, B.A. & **Archibald, J. M.** 2018. Exploring Lateral Gene transfer: implications for transformation protocols. MMI Experimental Model Systems virtual convention VIII. (talk)
- Filloramo*, G.V., Curtis, B.A. & **Archibald, J. M.** 2018. Fine-scale genomic investigation reveals long terminal repeat retrotransposon activity in the marine diatom *Phaeodactylum tricornutum*. CRC 1182 Junior Researchers Training Workshop, Kiel, Germany. (talk)
- Filloramo*, G.V., Curtis, B.A. & **Archibald, J. M.** 2018. Fine-scale genomic investigation reveals long terminal repeat retrotransposon activity in the marine diatom *Phaeodactylum tricornutum*. CIFAR Integrated Microbial Biodiversity Program meeting, Alberta, Canada. (talk)
- Filloramo*, G.V., Curtis, B.A. & **Archibald, J. M.** 2018. An investigation of long terminal repeat retrotransposon activity in the marine diatom *Phaeodactylum tricornutum*. CIFAR Integrated Microbial Biodiversity Program meeting, Alberta, Canada. (poster)
- Filloramo*, G.V., Curtis, B.A. & **Archibald, J. M.** 2018. Fine-scale genomic investigation reveals long terminal repeat retrotransposon activity in the marine diatom *Phaeodactylum tricornutum*. Phycological Society of America-International Society of Protistologists joint conference, Vancouver, Canada. (talk)
- Colp*, M. J., Curtis, B. A., & **Archibald, J. M.** 2018. An experimental model for studying lateral gene transfer in eukaryotes. PSA/ISOP Joint Annual Meeting, Vancouver, Canada. (talk)
- Colp*, M. J., Curtis, B. A., & **Archibald, J. M.** 2018. Development of an experimental model for studying lateral gene transfer in eukaryotes. Canadian Institute for Advanced Research (CIFAR) Integrated Microbial Biodiversity Conference, Banff, Canada. (poster)
- Colp*, M. & **Archibald, J. M.** 2018. An experimental model for studying lateral gene transfer in eukaryotes. CRC1182 Junior Researchers Training Workshop, Kiel, Germany. (talk)
- Gallot-Lavallée*, L., Blanc, G., Roger, A.J. & **Archibald, J. M.** 2018. "Endosymbiotic" virophages and protist immunity: bioinformatic analysis of *Halocafetaria seosinensis* virophages. CRC 1182 Junior Researchers Training Workshop, Kiel, Germany. (talk)
- Curtis*, B.A., Sibbald, S. J., Colp, M., Filloramo, G.V. **Archibald, J. M.** 2018. Intergenerational Sequencing for Genomics. Illumina User Group Meeting, Halifax, Canada. (talk)
- Kim, J.I., Shin, H., Skaloud, P., Jung, J., Yoon, H., **Archibald, J.M.** and Shin, W. 2018. Comparative Plastid Genomics of *Synurophyceae*: Evolution via Lateral Gene Transfer and Inverted Repeat Dynamics. The 5th joint meeting of the Phycological Society of America & International Society of Protistologists. Vancouver, Canada. (talk)

- Kim, J.I., Yoon, H., Yi, G., **Archibald, J.M.** and Shin, W. 2018. Evolutionary dynamics of cryptophyte mitochondrial genomes: gene rearrangements and mobile genetic elements. Joint meeting of the Korean Society of Protistologists and Japan Society of Protistology. Jeju, Korea. (talk)
- de Vries*, J., Gould, S. B., Rensing, S. A. & **Archibald, J. M.** 2017. How Plastids Shaped (Land) Plant Genomes and Physiology. International Botanical Congress XIX, Shenzhen, China. (talk)
- de Vries*, J., Curtis, B. A., Gould, S. B. & **Archibald, J. M.** 2017. Plastid-nucleus communication and stress response signaling in land plants' closest algal relatives. 18th Annual Meeting of the International Society of Endocytobiology, Konstanz, Germany (talk)
- Åsman, A., Curtis, B. A. & **Archibald, J. M.** 2017. Evolution of gene regulation in nature's smallest nuclear genomes. EMBO / EMBL symposium. The Non-coding genome , Heidelberg, Germany. (poster)
- Åsman*, A., Curtis, B.A. & **Archibald J. M.** 2017. Evolution of gene regulation in nature's smallest nuclear genomes. ICOP (15th International Congress of Protistology), Prague, Czech Republic. (poster)
- Colp*, M., Muñoz-Gómez, S.A., Mejía-Franco, F.G., Durnin, K., Grisdale, C. J., **Archibald, J. M.** & Slamovits, C. 2017. The plastid genomes of early-branching rhodophyte algae reveal unprecedented levels of self-splicing intron proliferation. ICOP (15th International Congress of Protistology), Prague, Czech Republic. (poster)
- de Vries*, J., Curtis, B. A., Gould, S. B. & **Archibald, J. M.** 2017. Streptophyte algal stress response and the evolution of nuclear control over plastid function. CIFAR Integrated Microbial Biodiversity Program, Whistler, BC, Canada. (poster)
- Sibbald*, S. J., Cenci, U., Eme, L., Kim, E., & **Archibald, J. M.** 2017. Pinpointing the acquisition of complex red algal plastids in cryptophyta. International Phycological Society Congress, Szczecin, Poland. (talk)
- David*, V., Tanifuji, G., Moog, D. & **Archibald, J. M.** 2017. *Perkinsela sp.*, the amoeba-dwelling kinetoplastid endosymbiont. ICOP (15th International Congress of Protistology), Prague, Czech Republic. (talk)
- de Vries*, J., Curtis, B. A., Gould, S. B. & **Archibald, J. M.** 2017. Streptophyte algal stress response signaling and the origin of land plant plastid-nucleus communication. Botanikertagung 2017 (International Conference on Plant Sciences under the umbrella of the German Botanical Society), Kiel, Germany. (poster)
- David*, V., Tanifuji, G. & **Archibald, J. M.** 2016. Genome(s) of kinetoplastid protist *Perkinsela sp.* and its host *Paramoeba pemaquidensis*. 46th Jirovec's Protozoological Days (Czech Society for Parasitology), Czech Republic. (talk)
- Sibbald*, S. J., Cenci, U., O'Kelly, C., & **Archibald, J. M.** 2016. Diversity and evolution of *Neoparamoeba* species and their kinetoplastid endosymbionts. Canadian Institute for Advanced Research (CIFAR) Integrated Microbial Biodiversity Conference, Toronto, Canada. (poster)
- Moog*, D., & **Archibald, J. M.** 2015. A reduced glycosome in the kinetoplastid endosymbiont of parasitic *Paramoeba* species? Annual meeting of the International Society of Endocytobiology (ISE-G). (talk)
- Moog*, D., & **Archibald, J. M.** 2015. Genomic insights into *Paramoeba* species and their kinetoplastid endosymbionts. Black Forest Summer School in Bioinformatics. (talk)
- Moog*, D., Curtis, B.A., Tanifuji, G., Dlutek, M., & **Archibald, J. M.** 2015. Genomic insights into *Paramoeba invadens* and its kinetoplastid endosymbionts. Annual Meeting of the Canadian Institute for Advanced Research, Program in

Integrated Microbial Biodiversity, Victoria, British Columbia. (poster)

Cenci*, U., & **Archibald, J. M.** 2015. Complete nuclear genome sequence of *Goniomonas avonlea*, a plastid-lacking cryptomonad. International Society of Protistologists/VII European Congress of Protistology, Seville, Spain. (talk)

Grisdale*, C. J., & **Archibald, J. M.** (2015) Alternative splicing and the evolution of chlorarachniophyte algae. International Society of Protistologists/VII European Congress of Protistology, Seville, Spain. (talk)

Sibbald*, S., Cenci, U., O’Kelly, C., & **Archibald, J. M.** 2015. Diversity and evolution of *Neoparamoeba* species and their kinetoplastid endosymbionts. International Society of Protistologists/VII European Congress of Protistology, Seville, Spain. (poster)

Moog*, D. & **Archibald, J. M.** 2015. Genomic insights into *Paramoeba* spp. And their kinetoplastid endosymbionts. Annual Meeting of the Canadian Institute for Advanced Research, Program in Integrated Microbial Biodiversity, Victoria, British Columbia. (talk)

Cenci*, U. & **Archibald, J. M.** 2014. Genomic investigation of metabolic links between *Paramoeba pemaquidensis* and its kinetoplastid endosymbiont. Dalhousie-CAU-Kiel Workshop on Evolutionary Genomics of Symbiosis, Dalhousie University. (talk)

Gile, G.* & **Archibald, J. M.** 2014. Aminoacyl tRNA synthetase gene sharing in complex algae. Dalhousie-CAU-Kiel Workshop on Evolutionary Genomics of Symbiosis, Dalhousie University. (talk)

Cenci*, U. & **Archibald, J. M.** 2014. Genomic investigation of metabolic links between *Paramoeba pemaquidensis* and its kinetoplastid endosymbiont. Protist 2014 (Annual Meeting of the International Society for Evolutionary Protistology), Banff, Canada. (talk)

Moog*, D., Curtis, B.A. & **Archibald, J. M.** 2014. Genomic insights into *Paramoeba invadens* and its kinetoplastid endosymbiont. Protist 2014 (Annual Meeting of the International Society for Evolutionary Protistology), Banff, Canada. (poster)

Sibbald*, S., Cenci, U., Eglit, Y., O’Kelly, C.J. & **Archibald, J. M.** 2014. Diversity and evolution of *Paramoeba* species and their kinetoplastid endosymbionts. Protist 2014 (Annual Meeting of the International Society for Evolutionary Protistology), Banff, Canada. (poster)

Martin*, L., Curtis, B.A., Dlutek, M. & **Archibald, J. M.** 2014. Comparative genomics of cryptophyte and chlorarachniophyte algae. Protist 2014 (Annual Meeting of the International Society for Evolutionary Protistology), Banff, Canada. (poster)

Cenci*, U. & **Archibald, J. M.** 2014. Genomic investigation of metabolic links between *Neoparamoeba pemaquidensis* and its kinetoplastid endosymbiont. Annual Meeting of the Canadian Institute for Advanced Research, Program in Integrated Microbial Biodiversity, Czech Academy of Sciences, Czech Republic. (poster)

Gruber*, A. & **Archibald, J. M.** 2013. Occurrence and significance of C-terminal targeting motifs in organisms with secondary plastids. 12th International Colloquium on Endocytobiology and Symbiosis, Halifax, Nova Scotia. (talk)

Tanifuji*, G. & **Archibald, J. M.** 2013. Genome and transcriptome analyses of *Neoparamoeba pemaquidensis* and its kinetoplastid endosymbiont. 12th International Colloquium on Endocytobiology and Symbiosis, Halifax, Nova Scotia. (talk)

Tanifuji*, G. & **Archibald, J. M.** 2013. Genome and transcriptome analyses of the kinetoplastid endosymbiont of *Neoparamoeba pemaquidensis* (Amoebozoa). Annual Meeting of the Canadian Institute for Advanced Research, Program in Integrated Microbial Biodiversity, Whistler, British Columbia, Canada. (talk)

- Curtis*, B. & **Archibald, J. M.** 2012. Cryptophyte and chlorarachniophyte nuclear genomes reveal evolutionary mosaicism and fate of nucleomorphs. Annual Meeting of the Canadian Institute for Advanced Research, Program in Integrated Microbial Biodiversity, Quebec City, Canada. (talk)
- Tanifuji*, G. & **Archibald, J. M.** 2012. Genomics-enabled insight into the periplastidial compartments of cryptophyte and chlorarachniophyte algae, Protist 2012 (Annual Meeting of the International Society for Evolutionary Protistology), Oslo, Norway. (talk)
- Tanifuji*, G., Onodera, N. T., Moore, C. E., Hopkins J. & **Archibald, J. M.** 2012. Comparative analysis of nuclear and nucleomorph gene expression in cryptomonad and chlorarachniophyte algae. (Annual Meeting of the International Society for Evolutionary Protistology), Oslo, Norway. (poster)
- Maruyama*, S. & **Archibald, J. M.** 2012. Green and red algal phylogenetic signals in nuclear genes shared by eukaryotes bearing secondary plastids of green algal origin: looking beyond endosymbiotic versus lateral gene transfer. 20th Annual Meeting of the Society for Molecular Biology and Evolution, Dublin, Ireland. (poster)
- Moore*, C. & **Archibald, J.M.**, 2012. Nucleomorph genome sequence of the cryptophyte alga *Chroomonas mesostigmatica* reveals lineage-specific gene loss and genome complexity. 20th Annual Meeting of the Society for Molecular Biology and Evolution, Dublin, Ireland. (poster)
- Nakayama*, T., Ishida, K. & **Archibald, J. M.** 2012. Broad distribution of TPI-GAPDH fusion proteins among eukaryotes: evidence for glycolysis in the mitochondrion? Protist2012 (Annual Meeting of the International Society for Evolutionary Protistology), Oslo, Norway. (talk)
- Moore*, C. & **Archibald, J.M.**, 2011. A small genome that 'thinks big': The complete nucleomorph genome of the cryptophyte alga *Chroomonas*. Joint meeting of the International Society of Protozoologists and the Phycological Society of America, Seattle, USA. (talk)
- Tanifuji*, G & **Archibald, J. M.** 2011. Comparative analysis of nucleomorph and nuclear genomes in cryptophytes and chlorarachniophytes. Maritime Protistologists Meeting. Halifax, Canada. (talk)
- Tanifuji*, G., Kim, E., Onodera, N. T., Gibeault, R., Dlutek, M., Cawthorn, R. J., Fiala, I., Lukeš, J., Greenwood S. J., & **Archibald, J. M.** 2011 Genomic characterization of *Neoparamoeba pemaquidensis* (Amoebozoa) and its kinetoplastid endosymbiont, 19th Annual Meeting of the Society for Molecular Biology and Evolution, Kyoto, Japan. (poster).
- Tanifuji*, G. Examples for the study of genomes. 2011. Special seminar in department of anatomy, Iwate Medical University, Iwate, Japan (talk).
- Kim*, E. & **Archibald, J. M.** 2011. RNA-Seq Data. *Guillardia theta* and *Bigeloviella natans* Genome Jamboree. DOE Joint Genome Institute, Walnut Creek, California (talk)
- Curtis*, B. E. & **Archibald, J. M.** 2011. Endosymbiotic gene transfer, endosymbiotic gene replacement and genome / proteome mosaicism. *Guillardia theta* and *Bigeloviella natans* Genome Jamboree. DOE Joint Genome Institute, Walnut Creek, California (talk)
- Hopkins*, J. F. & **Archibald, J. M.** 2011. Proteomic investigation of plastid / PPC proteins in *B. natans*. *Guillardia theta* and *Bigeloviella natans* Genome Jamboree. DOE Joint Genome Institute, Walnut Creek, California (talk)
- Tanifuji*, G. & **Archibald, J. M.** 2011. Comparative analysis of nucleomorph and nuclear genomes: investigation of the plastid and PPC proteomes. *Guillardia theta* and *Bigeloviella natans* Genome Jamboree. DOE Joint Genome Institute, Walnut Creek, California (talk)
- Maruyama*, S. & **Archibald, J. M.** 2011. Sex-determining locus in *G. theta*. *Guillardia theta* and *Bigeloviella natans* Genome Jamboree. DOE Joint Genome Institute, Walnut Creek, California (talk)
- Hopkins*, J. F., Spencer, D. F., Gray, M. W. & **Archibald, J. M.** 2010. Proteomics reveals complex evolution of plastid-

- and nucleomorph-targeted proteins in the chlorarachniophyte *Bigeloviella*. 18th Annual Meeting of the Society for Molecular Biology and Evolution. Lyon, France. (talk)
- Moore*, C. & **Archibald, J. M.** 2010. Small genomes, big questions: genome reduction as revealed by the 'large' nucleomorph genome of the cryptophyte alga *Chroomonas*. 18th Annual Meeting of the Society for Molecular Biology and Evolution. Lyon, France. (talk)
- Maruyama*, S. Sugahara, J. **Archibald, J. M.**, Kanai, A. & Nozaki, H. 2010. Duplication, rearrangement and invention of novel tRNA genes in the nuclear and nucleomorph genomes of photosynthetic eukaryotes. 18th Annual Meeting of the Society for Molecular Biology and Evolution. Lyon, France. (poster)
- Kim, E., Park, J. S., Simpson, A. G. B., Matsunaga, S., Watanabe, M., Murakami, A., Sommerfeld, K., Onodera, N. T. & **Archibald, J. M.** 2010. Complex array of endobionts in *Petalomonas sphagnophila*, a large heterotrophic euglenid protist from *Sphagnum*-dominated peatlands. 13th International Symposium on Microbial Ecology. Seattle, Washington. (poster)
- Kim*, E. & **Archibald, J. M.** 2010. Evolution and ecology of uncultured eukaryotic microbes. Fourth Annual Meeting of the Canadian Institute for Advanced Research, Integrated Microbial Biodiversity Program. Seattle, Washington. (talk)
- Archibald***, J. M. 2009. Endosymbiotic gene transfer and genome evolution in secondary plastid-containing algae: insights from cryptophytes and chlorarachniophytes. *Phycologia* 48, 4-5.
- Donaher*, N. & **Archibald, J. M.** 2009. The complete plastid genome sequence of the secondarily non-photosynthetic alga *Cryptomonas paramecium* 977/2a. Atlantic Omics Symposium, Moncton New Brunswick. (talk)
- Eveleigh*, R., **Archibald, J. M.**, & Beiko*, R. G. 2009. Being *Aquifex aeolicus*: untangling a hyperthermophile's checkered past. Third Annual Meeting of the Canadian Institute for Advanced Research, Integrated Microbial Biodiversity Program. Asilomar, California. (poster)
- Moore*, C. & **Archibald, J. M.** 2009. 454 pyrosequencing the nucleomorph genome of *Chroomonas mesostigmatica* CCAP1168: introns, synteny and gene density. Third Annual Meeting of the Canadian Institute for Advanced Research, Integrated Microbial Biodiversity Program. Asilomar, California. (poster)
- Eveleigh*, R., **Archibald, J. M.**, & Beiko*, R. G. 2009. Being *Aquifex aeolicus*: untangling a hyperthermophile's checkered past. 17th Annual Meeting of the Society for Molecular Biology and Evolution. Iowa City, Iowa. (poster)
- Donaher*, N., Lane, C. E., Malfatti, S. A., Chain, P. S. G., & **Archibald, J. M.** 2008. Pyrosequencing the A+T-rich nucleomorph genomes of the cryptophyte algae *Rhodomonas* sp. 1178 and *Cryptomonas paramecium*: insight into the pattern and process of nuclear genome reduction. Joint Annual meetings of the International Society for Evolutionary Protistology and the International Society of Protozoologists. Halifax, NS, Canada. (talk)
- Horak*, A., Slamovits, C., Lane, C. E., Patron, N. J., **Archibald, J. M.** & Keeling, P. J. 2008. Comparative functional genomics of nucleomorphs. Joint Annual meetings of the International Society for Evolutionary Protistology and the International Society of Protozoologists. Halifax, NS, Canada. (poster)
- Silver*, T. D. & **Archibald, J. M.** 2008. Chlorarachniophyte nucleomorphs: big surprises from small genomes. Joint Annual meetings of the International Society for Evolutionary Protistology and the International Society of Protozoologists. Halifax, NS, Canada. (poster)
- Lane*, C. E. & **Archibald, J. M.** 2008. Origin and evolution of the cryptophyte nucleomorph proteome. Joint Annual meetings of the International Society for Evolutionary Protistology and the International Society of Protozoologists. Halifax, NS, Canada. (talk)
- Donaher*, N. A., Lane, C. E., Malfatti, S. A., Chain, P. S. G. & **Archibald***, J. M. 2008. Pyrosequencing the A+T-rich nucleomorph genomes of the cryptophyte algae *Rhodomonas* sp. 1178 and *Cryptomonas paramecium*: Insight into

- the pattern and process of nuclear genome reduction. 16th Annual Meeting of the Society for Molecular Biology and Evolution. Barcelona, Spain. (poster)
- Archibald*, J. M.**, Gray, M. W., Keeling, P. J., McFadden, G. I. & Lane, C. E. 2007. Impact of secondary endosymbiosis on genome evolution and cell biology: A cryptomonad and a chlorarachniophyte nuclear genome. Third Annual DOE Joint Genome Institute User Meeting, Walnut Creek, California. (poster)
- Kim*, E., Lane, C. E. & **Archibald, J. M.** 2007. Complete sequence and analysis of the mitochondrial genome of *Hemiselmis andersenii* CCMP644 (Cryptophyceae). Maritimes Protistology Conference. Halifax, NS, Canada. (talk)
- Donaher*, N. A., Lane, C. E., **Archibald, J. M.** 2007 Preliminary analysis of the nucleomorph genome of the cryptomonad *Cryptomonas paramecium*. Maritimes Protistology Conference. Halifax, NS, Canada. (talk)
- Khan*, H. & **Archibald, J. M.** 2007. Introns within introns within introns: repeated lateral transfer and recent transposition of mobile introns in the plastid genomes of cryptomonads. Maritimes Protistology Conference. Halifax, NS, Canada. (talk)
- Silver*, T. D. & **Archibald, J. M.** 2007. Chlorarachniophyte nucleomorph genome diversity and the anomalous Unid. sp. CCMP622. Maritimes Protistology Conference. Halifax, NS, Canada. (talk)
- Silver*, T. D., Koike, S., Yabuki, A., Kofuji, R., Ishida, K.-I. & **Archibald, J. M.** 2007. Chlorarachniophyte nucleomorph genome diversity and the anomalous Unid. sp. CCMP622. 15th Annual Meeting of the Society for Molecular Biology and Evolution. Halifax, Nova Scotia. (poster)
- Silver*, T. D. & **Archibald, J. M.** 2007. CCMP622 Unid. sp.- a chlorarachniophyte alga with a 'large' nucleomorph genome. 46th Annual Northeast Algal Symposium. Narragansett, Rhode Island, USA. (talk)
- Donaher*, N. A., Lane, C. E., **Archibald, J. M.** 2007 Preliminary study of the *Cryptomonas paramecium* nucleomorph genome. Annual meeting for the Northeast Algal Society, Narragansett, Rhode Island, USA. (talk)
- Donaher*, N. A., Lane, C. E., **Archibald, J. M.** 2007 Investigating the tiny nucleomorph genome of the cryptomonad *Cryptomonas paramecium*. 15th Annual Meeting of the Society for Molecular Biology and Evolution, Halifax, Nova Scotia, Canada. (poster)
- Kim*, E., Lane, C. E. & **Archibald, J. M.** 2007. Complete sequence and analysis of the mitochondrial genome of *Hemiselmis andersenii* CCMP644 (Cryptophyceae). Phycological Society of America Annual Meeting, Providence, Rhode Island. (talk)
- Lane*, C. E., van den Heuvel, K., Curtis, B., Fong, A., Kozera, C., Parsons, B., Bowman, S. and **Archibald, J. M.** 2007. The consequences of genome reduction in eukaryotes inferred from nucleomorph comparative genomics. Annual Meeting of the Phycological Society of America, Providence, Rhode Island. (talk)
- Lane*, C. E., van den Heuvel, K., Curtis, B., Fong, A., Kozera, C., Parsons, B., Bowman, S. & **Archibald, J. M.** 2007. Eukaryotic genome reduction. Botanical Society of America, Chicago, Illinois. (talk)
- Lane*, C. E., van den Heuvel, K., Curtis, B., Fong, A., Kozera, C., Parsons, B., Bowman, S. & **Archibald, J. M.** 2007. Impact of genome reduction on the eukaryotic proteome: nucleomorphs as a case study. 15th Annual Meeting of the Society for Molecular Biology and Evolution, Halifax, Nova Scotia, Canada. (talk)
- Lane*, C. E. & **Archibald, J. M.** 2007. Re-assessing species boundaries in the cryptomonad genus *Hemiselmis*. Northeast Algal Symposium, Narragansett, Rhode Island. (talk)
- Khan*, H. & **Archibald, J. M.** 2007. Introns within introns within introns: repeated lateral transfer and recent transposition of mobile introns in the plastid genomes of cryptomonads. 15th Annual meeting of the Society of Molecular Biology and Evolution. Halifax, Nova Scotia, Canada. (talk)
- Khan*, H. & **Archibald, J. M.** 2007. Introns within introns within introns: repeated lateral transfer and recent

transposition of mobile introns in the plastid genomes of cryptomonads. Evolution 2007. Joint meeting of the Society for the Study of Evolution, American Society of Naturalists, and Society of Systematic Biologists. Christchurch, New Zealand. (talk)

Archibald*, J. M., Gray, M. W., Keeling, P. J., McFadden, G. I. & Lane, C. E. 2007. Impact of secondary endosymbiosis on genome evolution and cell biology: A cryptomonad and a chlorarachniophyte nuclear genome. Second Annual DOE Joint Genome Institute User Meeting, Walnut Creek, California. (poster)

Lane*, C. E., Kozera, C., Bowman, S., Curtis, B. & **Archibald, J. M.** 2006. Complete nucleomorph genome sequence of the cryptomonad *Hemiselmis rufescens*. Annual meeting of the International Society for Evolutionary Protistology. Wroclaw, Poland. (talk)

Khan, H. Curtis, B. A., Terrent Bussey, J., Kozera, C., Bowman, S. & **Archibald, J. M.** 2006. The complete plastid genome sequence of the cryptomonad alga *Rhodomonas salina* CCMP1319. Annual meeting of the International Society for Evolutionary Protistology, Wroclaw, Poland. (poster)

Silver, T. D. & **Archibald, J. M.** 2006. CCMP622 unid. sp.—a chlorarachniophyte alga with a ‘large’ nucleomorph genome. Annual meeting of the Society for Evolutionary Protistology, Wroclaw, Poland. (poster)

Lane, C. E., Kozera, C., Bowman, S., Curtis, B. & **Archibald*, J. M.** 2006. Complete nucleomorph genome sequence of the cryptomonad *Hemiselmis rufescens*. Annual meeting of the Society for Molecular Biology and Evolution. Tempe, Arizona. (talk)

Lane*, C. E., MacKinnon, M., Khan, H., Fong, A. & **Archibald, J. M.** 2005. Nucleomorph genome evolution in cryptomonads. Tri-National Young Investigators Workshop, Annual meeting of the Society for Molecular Biology and Evolution. Auckland, NZ. (talk)

Phipps*, K., Lane, C. E., & **Archibald, J. M.** 2005. Nucleomorph genome diversity in cryptomonad algae: a preliminary investigation of the genus *Cryptomonas*. Maritimes Protistology Conference. Halifax, NS, Canada. (poster)

Lane*, C. E., Khan, H., MacKinnon, M., Fong, A., Kozera, C., Curtis, B., Parsons, B., Bowman, S. & **Archibald, J. M.** 2005. New insights into nucleomorph genome evolution in cryptomonads. Maritimes Protistology Conference. Halifax, NS, Canada. (talk)

Khan*, H., Lane, C. E., Kozera, C., Curtis, B., Parsons, B., Bowman, S. & **Archibald, J. M.** 2005. Host nuclear genome survey of the cryptomonads *Rhodomonas salina* and *Cryptomonas paramecium*. Maritimes Protistology Conference. Halifax, NS, Canada. (talk)

Lane*, C. E., MacKinnon, M., Khan, H., Fong, A. & **Archibald, J. M.** 2005. Nucleomorph genome evolution in cryptomonads. Tri-National Young Investigators Workshop, Annual meeting of the Society for Molecular Biology and Evolution. Auckland, NZ. (talk)

Lane, C. E., Khan, H., MacKinnon, M., Fong, A., Kozera, C., Curtis, B., Parsons, B., Bowman, S. & **Archibald*, J. M.** 2005. The nucleus and nucleomorph of cryptomonad algae—two extremes of a genomic continuum. 14th Annual meeting of the Society for Molecular Biology and Evolution. Auckland, NZ. (talk)

Lane, C. E., Khan, H., MacKinnon, M., Fong, A., Kozera, C., Curtis, B., Parsons, B., Bowman, S. & **Archibald*, J. M.** 2005. Nuclear and nucleomorph genome evolution in cryptomonad algae. International symposium on the genomics of marine phytoplankton. Roscoff, France. (poster and talk)

Archibald, J. M., Doolittle, W. F., Bruyant*, F., Cullen, J. J., Bielawski, J. P., Bowman, S., Dennis, P., Edwards, E., Field, C. A., Li, W. K. W., Löffler, F., Major, D. W., Nesbø, C., O’Malley, M., Papke, R. T., Roger, A. J., Stokes, H. W., & Susko, E. 2005. Microbial Environmental Genomics Alliance (MEGA). The US National Oceanographic Partnership Program, Workshop on Ocean Ecogenomics. Washington, DC. USA. (poster)

Khan*, H., Lane, C. E., MacKinnon, M., Fong, A., Theophilou, S., Kozera, C., Curtis, B., Parsons, B., Bowman, S. & **Archibald, J. M.** 2005. Nuclear and nucleomorph genome evolution in cryptomonad algae. International Conference on Microbial Genomes. Halifax, Nova Scotia. (poster)

Lane*, C. E., MacKinnon, M., Khan, H. & **Archibald, J. M.** 2005. Genomic diversity and chromosome structure of cryptomonad nucleomorphs. 41st Northeast Algal Symposium, New Hampshire, USA. (talk)

MacKinnon, M., Fong, A., Lane*, C. E., Theophilou, S. & **Archibald, J. M.** 2005. Nucleomorph genome evolution in cryptomonad algae. Int'l Soc. for Evolutionary Protistology, 15th Ann. Meeting. Melbourne, Australia. (poster)

Archibald*, J. M., Theophilou, S., Fong, A. & MacKinnon, M. 2004. Genome reduction in eukaryotes: nucleomorph genomes as a case study. Joint Annual Meeting of the Society for Molecular Biology and Evolution and the American Genetic Association. Pennsylvania State University, Pennsylvania, USA. (talk)

Archibald*, J.M. 2004. Phagotrophy in the Chlorarachniophyte algae: implications for eukaryotic genome evolution. *J. Eukaryot. Microbiol.* **52**: 2. 56th Annual Meeting of the Society of Protozoologists. Bryant College, Rhode Island, USA. (talk)

Archibald*, J.M. 2004. Phagotrophy in the Chlorarachniophyte algae. Canadian Institute for Advanced Research and NASA Astrobiology Institute meeting on lateral gene transfer and the origins of eukaryotes. Harrison Hot Springs, British Columbia, Canada. (poster)

Archibald*, J. M. & Keeling, P. J. 2002. A novel polyubiquitin structure in Cercozoa and Foraminifera: evidence for a new eukaryotic supergroup. Int'l Soc. for Evolutionary Protistology, 14th Ann. Meeting. Vancouver, British Columbia, Canada. (talk)

Archibald*, J. M., Logsdon, J. M. Jr., Blouin, C. & Doolittle, W. F. 2001. Gene duplication and the evolution of CCT/TriC. Canadian Institute for Advanced Research, Evolutionary Biology Program, 15th Ann. Meeting. Val David, Quebec, Canada. (poster)

Archibald*, J. M., Doolittle, W. F. & Roger, A. J. 2001. Gene duplication, conversion and loss in the evolution of archaeal chaperonins. Int'l Meeting of the Society for Molecular Biology & Evolution, Ann. Meeting. Athens, Georgia, USA. (talk; Fitch Prize finalist)

Kovacs, E., Field, J., **Archibald, J. M.** & Lund*, P. A. (2001) Roles of CCT homologues in Archaea: studies on the halophile *Haloferax volcanii*. EuroConference and EMBO Workshop: Mechanisms and Cellular Functions of Molecular Chaperones. Sant Feliu de Guixols, Spain. (poster)

Archibald*, J. M., Logsdon, J. M. Jr., Blouin, C. & Doolittle, W. F. 2000. Gene duplication and the evolution of CCT/TriC. Workshop on Chaperonins: Structure and Function. Center for International Meetings on Biology, Madrid, Spain. (talk and poster; prize winner)

Archibald*, J. M., O'Kelly, C. J. & Doolittle, W. F. 2000. The chaperonin genes of jakobid flagellates: implications for early eukaryotic evolution. Canadian Institute for Advanced Research, Evolutionary Biology Program, 14th Ann. Meeting. Digby, Nova Scotia, Canada. (poster)

Archibald*, J. M., O'Kelly, C. J., Logsdon, J. M. Jr. & Doolittle, W. F. 2000. Phylogeny of chaperonins: implications for the origin and evolution of eukaryotes. Int'l Soc. for Evolutionary Protistology, 13th Ann. Meeting. Ceske Budejovice, Czech Republic. (talk)

Archibald, J. M., Logsdon*, J. M. Jr. & Doolittle, W. F. 1999. Ancient gene duplications in chaperonins: implications for eukaryotic phylogeny. Canadian Institute for Advanced Research, Evolutionary Biology Program, 13th Ann. Meeting. Banff, Alberta, Canada. (poster)

Archibald*, J. M., Logsdon, J. M. Jr. & Doolittle, W. F. 1999. Evolution of archaeal chaperonins by multiple independent gene duplications. Understanding chaperonin mediated protein folding. Karolinska Inst., Stockholm, Sweden. (talk and poster; student prize winner)

Archibald*, J. M., Logsdon, J. M. Jr. & Doolittle, W. F. 1999. Evolution of archaeal chaperonins by multiple independent gene duplications. Keystone Symposium. Archaea: Bridging the gap between Bacteria and Eukarya. Taos, New Mexico, USA. (poster)

Archibald*, J. M., Logsdon, J. M. Jr. & Doolittle, W. F. 1998. Phylogeny of chaperonin-containing TCP-1 genes from the early-diverging eukaryote, *Trichomonas vaginalis*. Int'l Soc. for Evolutionary Protistology, 12th Ann. Meeting. Flagstaff, Arizona, USA. (talk)

Archibald*, J. M., Logsdon, J. M. Jr. & Doolittle, W. F. 1998. Chaperonin-encoding genes from the pathogenic protozoa, *Trichomonas vaginalis* and *Giardia lamblia*. Faculty of Medicine Graduate Research Day. Halifax, Nova Scotia, Canada. (poster)

INVITED PRESENTATIONS (112 in total)

2024—Invited speaker, Comparative Genomics of Unicellular Eukaryotes Conference, San Feliu de Guixols, Spain. October 2nd. Title: *Host – mirusvirus interactions in the marine protist Aurantiochytrium*.

2024—Invited speaker, DRI Connect: Towards integrated solutions for digital research. May 27th. Title: *Informatics meets biology: challenges and opportunities in the genomics era*.

2024—Invited seminar speaker, Dalhousie University, Department of Microbiology & Immunology. May 13th. Title: *Adventures in long-read DNA sequencing: pan-genomes and the discovery of mirusviruses*.

2024—Invited seminar speaker, University of British Columbia, Biodiversity Research Centre genomics group. May 6th. Title: *Adventures in long-read sequencing: from protist pan-genomics to mirusviruses*.

2024—Invited speaker and Canadian Science Publishing Senior Investigator Award winner, Annual Conference of the Canadian Society for Molecular Biosciences, Winnipeg. May 8th. Title: *Endosymbiotic theory — a natural history*.

2024—Invited speaker, Biodiversity Cell Atlas Meeting, Marine Biological Laboratory. March 25th. Title: *Protist genome biology in the lab... and nature?*

2023—Invited speaker, Department of Biochemistry, University of Cambridge, UK. November 9th. Title: *Gene exchange across the eukaryotic tree of life: highways, byways, and bike paths*.

2023—Invited speaker, Zoology Institute (“Origin and Function of Metaorganisms”), Kiel University, Germany. November 6th. Title: *Gene exchange across the eukaryotic tree of life: highways, byways, and bike paths*.

2023—Invited speaker, Gregor Mendel Institute of Molecular Plant Biology, Vienna, Austria. November 3rd. Title: *Gene exchange across the eukaryotic tree of life: highways, byways, and bike paths*.

2023—Invited speaker, Department of Biology, University of Oxford, UK. November 2nd. Title: *Gene exchange across the eukaryotic tree of life: highways, byways, and bike paths*.

2023—Invited speaker, Department of Biology Seminar Series, Western University. September 6th. Title: *Gene sharing across the eukaryotic tree of life: highways, byways, and bike paths*.

2023—Invited speaker, Department of Plant and Microbial Biology, UC Berkeley. March 17th. Title: *Gene sharing on the eukaryotic tree of life: highways, byways, and bike paths*.

2022—Invited speaker, Multi-Omics Workshop of microbial Eukaryotes, Joint Genome Institute, California, September 2nd. Title: *Nanopore sequencing for fine-scale comparative genomics of micro-algae*. [Remote presentation due to COVID-19]

- 2022—Invited speaker, Dalhousie Faculty of Agriculture, June 16th, Truro, NS. Title: *Highways of gene sharing on the eukaryotic tree of life.*
- 2021—Invited speaker, Aquatic Symbiosis Genomics Consortium, Species to Genomes Course, Wellcome-Sanger Institute, October 12th. Title: *Mergers and acquisitions: using genomics to elucidate the biology of symbiosis in microbial eukaryotes.* [Remote presentation due to COVID-19]
- 2021—Invited lecturer, Cambridge University Biological Society, June 17th. Title: *Mergers and acquisitions: endosymbiosis and gene transfer in microbial eukaryotes.* [Remote presentation due to COVID-19]
- 2021—Invited speaker, Chicago Museum Docents Education Group, May 12th. Title: *Genes moving sideways: horizontal gene transfer.* [Remote presentation due to COVID-19]
- 2020—Invited plenary speaker, International Union of Microbiological Societies Congresses, Daejeon, Korea (November 18th). Title: *Gene flow in microbial eukaryotes.* [Remote presentation due to COVID-19]
- 2020—Invited lecturer, International Course on Algal Communities in Continental Waters, Universidade Estadual de Londrina, Brazil (September 29th). Title: *Endosymbiosis and the origin of plastids.* [Remote presentation due to COVID-19]
- 2020—Invited colloquium speaker, Stony Brook University, Department of Ecology and Evolution (September 23rd). Title: *Mergers and acquisitions: endosymbiosis and gene flow in microbial eukaryotes.* [Remote presentation due to COVID-19]
- 2020—Invited speaker, Aquatic Symbiosis Genomics Project (Kick-off meeting), Wellcome Sanger Institute (September 16th). Title: *Eukaryote-eukaryote symbioses.* [online]
- 2020—Temple University Department of Biology Seminar Series (April 20th). Title: *Jumping genes in eukaryotes: how and how much?* [Postponed due to COVID-19]
- 2020—Invited speaker, Joint Genome Institute Fungal / Algal Genomics Workshop, Walnut Creek, CA. (March 23rd). Title: *Genome mosaicism in algae.* [Postponed due to COVID-19]
- 2020—Invited symposium speaker, Purdue University Biochemistry Department (March 5th). Title: *Mergers and acquisitions: endosymbiosis and gene flow in microbial eukaryotes.*
- 2020—Invited speaker, Dalhousie Medical History Society, January 6th, Halifax, NS. Title: *Genomics: past, present, and future.*
- 2019—Miescher-Ishida Prize lecturer, International Colloquium on Endocytobiology and Symbiosis, Sept. 1-5, Lille, France. Title: *Adventures in genomics and symbiosis.*
- 2019—Invited speaker, Gordon Research Conference (Animal-Microbe Symbioses), Mount Snow, Vermont, June 16-21. Title: *Mergers and acquisitions: endosymbiosis and gene flow in microbial eukaryotes*
- 2019—University of New Brunswick Department of Biology Seminar Series (March 22nd). Title: *Genomics 2.0: biology and medicine in the 21st century.*
- 2018—Invited speaker, the 13th International Conference on Genomics, October 24th – 28th, Shenzhen, China. Title: *Weird, wonderful and important: protist genomes from across the tree of eukaryotic life.*
- 2018—Invited symposium speaker, the 5th joint meeting of the Phycological Society of America & International Society of Protistologists, July 29th – August 2nd, Vancouver, British Columbia. Title: *10KP: a phylodiverse genome sequencing plan.*

- 2018—Invited speaker, Canadian Institute for Advanced Research, Integrated Microbial Biodiversity Program, Annual Meeting, June 12-15, Banff, Alberta. Title: *Impact of genome sequencing technologies on microbial diversity research.*
- 2018—Invited plenary speaker, CRC 1182 Junior Researchers Training Workshop, May 2-4, Kiel University, Germany. Title: *Euks in euks: new perspectives from kinetoplastid endosymbionts within pathogenic amoebae.*
- 2018—Invited speaker, Reef Microbiome Workshop, McGill's Bellairs Research Station, Barbados (January 26-February 2nd). Title: *Gene transfer in eukaryotes.*
- 2017—Invited speaker, The Company of Biologists Workshop ('symbiosis in the microbial world'), Sussex, UK (November 5th–9th). Title: *Symbiosis: new perspectives from eukaryotic endosymbionts within pathogenic amoebae.*
- 2017—Invited plenary speaker, Norwegian Biologist's Association annual meeting (November 3rd), Oslo, Norway. Title: *One plus one equals one: historical and modern perspectives on endosymbiotic theory.*
- 2017—Invited symposium speaker, University of Bergen (November 2nd). Title: *Jostein Goksøyr's 'Evolution of Eukaryotic Cells': 50 years on.*
- 2017—Invited symposium speaker, 15th International Congress of Protistology, Prague, Czech Republic (July 30th–August 4th). Title: *Symbiosis: new perspectives from eukaryotic endosymbionts within pathogenic amoebae.*
- 2017—Invited lecturer, Frontiers in Evolutionary Ecology and Genomics Workshop, Beijing Normal University, China (June 24-26). Titles: *One plus one equals one: historical and modern perspectives on endosymbiotic theory AND Endosymbiosis and genome mosaicism in microbial eukaryotes.*
- 2017—Invited symposium speaker, Annual meeting of the Society for General Microbiology, Edinburgh, UK (April 1-6th). Title: *Symbiosis: new perspectives from eukaryotic endosymbionts within pathogenic amoebae.*
- 2017—Invited speaker, 67th Annual Conference of the Canadian Society of Microbiologists, University of Waterloo (June 20-23). Title: *One plus one equals one: historical and modern perspectives on symbiosis.*
- 2017—Invited speaker, Workshop in Symbiotic Interactions in the Oceans, Grand Wailea, Maui (January 23-27). Title: *Of macrobes and microbes: symbiosis, ecology and evolution.*
- 2016—Invited public lecture, Nova Scotian Institute of Science (December 5th). Title: *Molecular clocks: using DNA to infer evolution.*
- 2016—Acadia University Department of Biology Seminar Series (September 29). *Symbiosis: new perspectives from the eukaryotic endosymbionts of pathogenic amoebae.*
- 2016—Invited plenary speaker, 13th International Colloquium on Endocytobiology and Symbiosis, Kyoto, Japan. Title: *One plus one equals one: historical and modern perspectives on endosymbiotic theory.*
- 2016—Invited speaker and Discussion Leader, Gordon Research Conference on Mitochondria and Chloroplasts, June 19-24, Mount Snow, Vermont. Title: *One plus one equals one: historical and modern perspectives on endosymbiosis.*
- 2016—Invited plenary speaker, DFG 'Origin and function of metaorganisms', June 8-10, Kiel University, Germany. Title: *Endosymbiosis and genome mosaicism in microbial eukaryotes.*
- 2016—Invited plenary speaker, Harvard Plant Biology Symposium, May 2-3, Harvard University. Title: *One plus one equals one: historical and modern perspectives on the evolution of eukaryotic photosynthesis.*

- 2016—Invited speaker, EMBO/EMBL Symposium, January 26-29, Heidelberg, Germany. Title: *Gene transfer in eukaryotes: frequency, patterns and implications.*
- 2015—Dalhousie University Department of Microbiology & Immunology Seminar Series. Title: *One plus one equals one: endosymbiosis and genome mosaicism in eukaryotic evolution.*
- 2015—Invited plenary speaker, 6th European Phycological Congress, August 23-28, London, England. Title: *One plus one equals one: symbiosis and the evolution of complex life.*
- 2015—Invited ‘history of science’ speaker, NSF-funded ‘Research Experience for Undergraduates Program’, June 24, Wadsworth Centre, Albany, New York. Title: *One plus one equals one: symbiosis and the evolution of complex life.*
- 2014—Acadia University Department of Biology Seminar Series (November 13). Title: *One plus one equals one: symbiosis and the evolution of complex life.*
- 2014—Invited speaker, Arthur M. Sackler Colloquium of the National Academy of Sciences, October 15-17, Irvine, California. Title: *Nuclear organelles.*
- 2014—University of New Brunswick Department of Biology Seminar Series (October 3). Title: *One plus one equals one: symbiosis and the evolution of complex life.*
- 2014—Invited plenary speaker (Seymour H. Hutner Young Investigator Prize winner), International Society of Protistologists Annual Meeting, August 3-8, Banff, Alberta. Title: *Problems and progress in protistology.*
- 2014—Canadian Institute for Advanced Research, Integrated Microbial Biodiversity Program, Annual Meeting, June 25-29, Czech Academy of Sciences, Czech Republic. Title: *Serial Endosymbiosis Theory: who said what, when and why.*
- 2014—“Kieler Woche Guest”. Invited by the Natural & Mathematical Faculty at Kiel University, Germany, to give a public lecture on science as part of their Kiel Week celebrations (June 21-29). Title: *One plus one equals one: symbiosis and the evolution of complex life.*
- 2014—Concordia University Department of Biology Seminar Series (April 17). Title: *One plus one equals one: endosymbiosis and genome mosaicism in the diversification of complex life.*
- 2013—Invited speaker, EMBO Conference on Comparative Genomics of Eukaryotic microorganisms, October 19-24, San Feliu de Guixols, Spain. Title: *Euks in euks: new perspectives from the Ichthyobodo-related endosymbionts of pathogenic amoebae.*
- 2013—Invited symposium speaker, Microbial Diversity Summer Course, Marine Biological Laboratory, Woods Hole, MA. Title: *Genomic perspectives on the origin and spread of photosynthesis in eukaryotes.*
- 2013—Invited speaker, ICOP XIV (International Congress of Protistology), Vancouver, Canada. Title: *Euks in euks: new perspectives from the Ichthyobodo-related endosymbionts of pathogenic amoebae.*
- 2013—University of Ottawa Department of Biology Seminar Series. Title: *One plus one equals one: endosymbiosis and genome mosaicism in the diversification of complex life.*
- 2012—Queen Mary University of London, School of Biological and Chemical Sciences, Seminar Series. Title: *One plus one equals one: plastid evolution and genome mosaicism in microbial eukaryotes.*
- 2012—Invited keynote address, book launch for “On the origin of eukaryotic cells”, in honour of the late Lynn Margulis, Lisbon, Portugal. Title: *Lynn Margulis (1938-2011).*
- 2012—University of Cambridge Department of Biochemistry Seminar Series. Title: *Endosymbiosis, genome mosaicism and the evolution of photosynthetic eukaryotes.*

- 2012—Christian Albrechts University (Germany) – Dalhousie University Joint Workshop. Title: *Overview of Comparative Genomics and Evolutionary Bioinformatics at Dalhousie.*
- 2012—Invited public lecture, Rethinking Biology and Evolution: New Approaches for the New Century, Lisbon, Portugal. Title: *Cellular evolution: modern perspectives on symbiosis and the diversification of complex life*
- 2012—Invited speaker, Workshop on Biology and Evolution, Lisbon, Portugal. Title: *Genomics meets philosophy: symbiosis and the ‘tree of life’*
- 2012—Invited speaker, Gordon Research Conference (Marine Microbes), Lucca, Italy. Title: *Genome mosaicism in marine microbial eukaryotes: how much and what does it mean?*
- 2011—Symposium speaker, 19th Annual Meeting of the Society for Molecular Biology and Evolution. Kyoto, Japan. Title: *One plus one equals one: secondary endosymbiosis and genome mosaicism in microbial eukaryotes.*
- 2011—“Molecular evolution in the genomic era”, Rome 3 University, Rome, Italy. Title: *Endosymbiosis and genome mosaicism in secondary plastid-bearing eukaryotes.*
- 2011—Evolutionary Genomics Workshop, Institute for Pure & Applied Mathematics, UCLA, CA. Title: *Genome mosaicism in microbial eukaryotes.*
- 2011—University of New Brunswick Department of Biology Seminar Series. Title: *Endosymbiosis and genome mosaicism in microbial eukaryotes.*
- 2011—Plant and Animal Genome XIX Conference, San Diego, CA. Title: *The genomes of nucleomorph-bearers.*
- 2010—Memorial Symposium for the 26th International Prize for Biology, Tsukuba, Japan. Title: *Endosymbiosis—a driver of molecular and cellular evolution.*
- 2010—11th International Colloquium on Endocytobiology and Symbiosis, Tromsø, Norway. Title: *Endosymbiosis and genome mosaicism in cryptophyte and chlorarachniophyte algae.*
- 2009—London Natural History Museum, Seminar Series, London, UK. Title: *You are what you eat: endosymbiosis and genome evolution in unicellular eukaryotes.*
- 2009—University of Exeter, School of Biosciences Seminar Series, Exeter, UK. Title: *Bonsai genomics: origin and evolution of reduced endosymbiotic nuclear genomes.*
- 2009—Mount Allison University Biochemistry Department Seminar Series. Title: *You are what you eat: endosymbiosis and genome evolution in cryptophyte and chlorarachniophyte algae.*
- 2009—Symposium speaker, Annual meeting of the Society for General Microbiology, Heriot-Watt University, Edinburgh, Scotland. Title: *The eukaryotic Tree of Life: Endosymbiosis takes its TOL.*
- 2009—Symposium speaker, 9th International Phycological Congress, Tokyo, Japan. Title: *Endosymbiotic gene transfer and genome evolution in secondary plastid-containing algae: insights from cryptophytes and chlorarachniophytes.*
- 2009—Symposium speaker, 17th Annual Meeting of the Society for Molecular Biology and Evolution. Iowa City, Iowa. Title: *Vanishing nucleomorph genomes: Where do they go and how do they do it?*
- 2009—University of Geneva Departmental of Zoology and Animal Biology Seminar Series, Geneva, Switzerland. Title: *Bonsai genomics: the remnant nuclear genomes of cryptophyte and chlorarachniophyte algae.*
- 2009—Symposium speaker, Perspectives on the Tree of Life, Dalhousie University, Halifax, NS, Canada. Title: *Genomic threads in the tapestry of photosynthetic life: implications for ‘tree thinking.’*

- 2009—Symposium speaker, IGERT Program in Comparative Genomics, Annual Symposium, University of Arizona, Tuscon, Arizona. Title: *The eukaryotic Tree of Life: Endosymbiosis takes its TOL*.
- 2009—Canadian Institute for Advanced Research Junior Fellow Academy Meeting, Toronto, ON. Title: *Integrated Microbial Biodiversity Program*
- 2009—Annual Meeting of the American Association for the Advancement of Science (AAAS), Darwin ‘Mania’ Symposium (organelles), Chicago, Illinois. Title: *Symbiosis as an evolutionary driver: mergers of cells and genomes*. Speaker and Chair.
- 2008—Tree of Life Workshop, Dalhousie University, Halifax, NS, Canada. Title: *Cryptophytes*.
- 2008—Mitochondria, ribosomes & cells: a symposium in honour of Mike Gray, Dalhousie University, Halifax, NS, Canada. Title: *Endosymbiosis and eukaryotic genome evolution*.
- 2008—Canadian Institute for Advanced Research, Integrated Microbial Biodiversity Program, 2nd Ann. Meeting. Lac Carling, Quebec, Canada. Title: *Nucleomorph genomes: “where are we now?”*
- 2008—International Symposium on Protist Biology (Plenary Speaker), University of Tsukuba, Japan. Title: *Protist diversity and the eukaryotic Tree of Life: endosymbiosis takes its TOL*.
- 2008—Dalhousie University Department of Biology Seminar Series. Title: *Going, going, not quite gone: the weird and wonderful world of endosymbiotic nuclear genomes*.
- 2007—University of Toronto Department of Ecology & Evolution Seminar Series. Title: *Bonsai genomics: understanding the process of genome reduction in eukaryotes*.
- 2007—Canadian Institute for Advanced Research, Integrated Microbial Biodiversity Program, 1st Ann. Meeting. Vancouver, British Columbia, Canada. Title: *Endosymbiosis, gene transfer and eukaryotic evolution*.
- 2007—American Genetic Association Annual Meeting, Bloomington, IA. Title: *Genome reduction in eukaryotes: nucleomorph genomes as a case study*.
- 2007—Second Annual US DOE Joint Genome Institute User Meeting, Walnut Creek, CA. Title: *Impact of secondary endosymbiosis on genome evolution and cell biology: a cryptomonad and a chlorarachniophyte nuclear genome*.
- 2007—4th European Phycological Congress, Oviedo, Spain. Title: *Secondary endosymbiosis and genome evolution: the nuclear and nucleomorph genomes of cryptophyte and chlorarachniophyte algae*.
- 2007—Acadia University Biology Department Seminar Series. Title: *Bonsai genomics: understanding the process of genome reduction in eukaryotes*.
- 2007—Canadian Institute for Advanced Research, Evolutionary Biology Program, 18th Ann. Meeting. Halifax, NS, Canada. Title: *Genome evolution writ small*.
- 2006—Microbial Biodiversity Workshop, Banff, Alberta, Canada. Title: *Genome size diversity in microbial eukaryotes*.
- 2005—Canadian Institute for Advanced Research, Workshop on Microbial Biodiversity, Vancouver, BC, Canada. Title: *The nucleus and nucleomorph of cryptomonad algae—two extremes of a genomic continuum*.
- 2005—Annual General Meeting of the Canadian Society for Microbiologists, Halifax, NS, Canada. Title: *Presentation on “Careers in Academia” as part of roundtable discussion*.

- 2004—Canadian Institute for Advanced Research, Evolutionary Biology Program, 17th Ann. Meeting. Pine Hill, Quebec, Canada. Title: *On the feeding habits of chlorarachniophyte algae*.
- 2004— NASA Astrobiology Institute and Canadian Institute for Advanced Research meeting on lateral gene transfer and the origins of eukaryotes, Harrison Hot Springs, British Columbia, Canada. Title: *Lateral gene transfer and the plastid proteome of algae*.
- 2003—Department of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Nova Scotia, Canada. Title: *Lateral gene transfer and the plastid proteome of algae*.
- 2002—Canadian Institute for Advanced Research, Evolutionary Biology Program, 16th Ann. Meeting. Harrison Hot Springs, British Columbia, Canada. Title: *Phylogenetic origins of the host and endosymbiont components of chlorarachniophyte algae*.
- 2002—Departments of Botany and Zoology, University of British Columbia, Vancouver, British Columbia, Canada. Title: *Recycled plastids: a green (and red) movement in eukaryotic evolution*.
- 2002—Department of Biochemistry and Molecular Biology, Dalhousie University, Halifax, Nova Scotia, Canada. Title: *Recycled plastids: a green (and red) movement in eukaryotic evolution*.
- 2002—Department of Botany, University of British Columbia, Vancouver, British Columbia, Canada. Title: *Gene duplication, gene conversion and the evolution of group II chaperonins*.
- 2001—Izaak Walton Killam Memorial Fellowship Committee Banquet, University of British Columbia, Vancouver, British Columbia, Canada. Title: *Origin and evolution of apicomplexan parasites*.
- 2001—Canadian Institute for Advanced Research, Evolutionary Biology Program, 15th Ann. Meeting. Val David, Quebec, Canada. Title: *Gene conversion and the evolution of archaeal chaperonins: a likelihood method for detecting recombination*.
- 2000—Center for International Meetings on Biology, Workshop on Chaperonins: Structure and Function. Madrid, Spain. Title: *Gene duplication and the evolution of CCT/Tric*.

PUBLIC AWARENESS / OUTREACH / EDUCATION

- 2023—**Invited speaker**, Alzheimer Society of Nova Scotia, Knowledge Changes Everything (Panel Event), January 31st. Title: *Family perspectives on dementia*.
- 2021—**Invited article**. Title: *Confessions of an amateur caregiver*. In *the Loop Magazine (Summer)*, Alzheimer Society of Nova Scotia. [Link](#) see also cycleoflife.ca
- 2021—**Invited opinion article**. Title: *Navigating the twists and turns on the road to dementia awareness*. Saltwire Press, August 4th.
- 2021—**Invited speaker**, Chicago Museum Docents Education Group, May 12th. Title: *Horizontal gene transfer (genes moving sideways)*. [Remote presentation due to COVID-19]
- 2018—**Public lecture**. Royal Society of Canada (Atlantic Chapter) public lecture series, Dalhousie University, Halifax (December 12th). Title: *Genomics: biology and medicine in the 21st century*.
- 2016—**Invited public lecture**. Nova Scotian Institute of Science, Natural History Museum (December 5th). Title: *Molecular clocks: using DNA to infer evolution*.
- 2015—**Coordinator**. IB Biology and Chemistry High School Research Day (~30 Park View Education Centre Students visited the department to carry out their research projects)
- 2014—**Author Blog**. “Microbes Matter” Oxford University Press (blog.oup.com)
- 2014—**Trade book**. “One plus one equals one: symbiosis and the evolution of complex life” *Oxford University Press*.
- 2014—**Invited public lecture**. Invited by the Natural & Mathematical Faculty at Kiel University, Germany, to give a public lecture on science as part of their Kiel Week celebrations (June 21-29). Title: *One plus one equals one: symbiosis and the evolution of complex life*.
- 2012—**Invited keynote address**. Book launch for translation of “On the origin of eukaryotic cells”, in honour of the late Lynn Margulis, Lisbon, Portugal. Title: *Lynn Margulis (1938-2011)*.

- 2012—**Invited public lecture.** Rethinking Biology and Evolution: New Approaches for the New Century, Lisbon, Portugal. Title: *Cellular evolution: modern perspectives on symbiosis and the diversification of complex life*
- 2010—**Invited presentation.** Title: How do Microbes Rule the World? ‘The Next Big Question’ National Tour, sponsored by the Canadian Institute for Advanced Research.
- 2009—**Newspaper article.** Title: Government should care about research. *The Chronicle Herald*, February 18.
- 2008—**Newspaper article.** Title: Look on the bright side of microbial life. *The Chronicle Herald*, November 17.
- 2008—**Invited presentation.** Science Career Day, Prince Andrew High School, Dartmouth, Nova Scotia. Title: *Life science research as a career.*
- 2007—**Judge.** Canada-Wide Science Fair, Agricultural College, Truro, Nova Scotia Canada.
- 2006—**Invited presentation.** Annual General Meeting of the Genealogical Association of Nova Scotia, Halifax, NS, Canada. Title: *The gene in genealogy: what is DNA and how is it used in genealogical research?*
- 2005—**Invited Presentation.** Genome Atlantic, Science Education and Community Outreach Initiative, Halifax, NS, Canada. Presentation on genome science and technology given to Gaetz Brook Junior High students. Title: *MEGA: Microbial Environmental Genomics Alliance.*
- 2005—**Roundtable discussion participant.** Annual General Meeting of the Canadian Society for Microbiologists, Halifax, NS, Canada. Title: *Presentation on “Careers in Academia”*

BOOK AND BOOK CHAPTER REVIEWER

CRC Press
 Nature
 Oxford University Press
 Pearson Publishing
 Princeton University Press
 Quarterly Review of Biology
 Springer
 W.H. Freeman and Company

MANUSCRIPT REVIEWER (273 manuscripts for the following 51 international journals since 09/2003)

Acta Protozoologica (1), *Acta Societatis Botanicorum Poloniae* (1), *Australasian Plant Pathology* (1), *Biochimica et Biophysica Sinica* (2), *BioEssays* (4), *BioSystems* (1) *Biotechniques* (1), *BMC Biology* (4), *BMC Evolutionary Biology* (9), *BMC Genomics* (4), *Botanica Marina* (1), *Current Biology* (28), *Encyclopedia of Life Sciences* (1), *Eukaryotic Cell* (3), *Environmental Microbiology* (1), *Evolutionary Bioinformatics* (1), *FEBS Letters* (1), *Gene* (2), *Genome Biology* (1), *Genome Biology and Evolution* (20), *International Journal for Parasitology* (1), *International Journal of Biochemistry and Cell Biology* (2), *International Journal of Systematic and Evolutionary Microbiology* (3), *Journal of Biological Chemistry* (1), *Journal of Eukaryotic Microbiology* (4), *Journal of Molecular Evolution* (19), *Journal of Phycology* (8), *Journal of Plant Research* (1), *Journal of Plant Physiology* (1), *Journal of Structural Biology* (1), *Journal of Theoretical Biology* (2), *Microbiology* (1), *Mobile Genetic Elements* (1), *Molecular Biology and Evolution* (39), *Molecular Ecology Resources* (1), *Molecular Genetics and Genomics* (2), *Molecular Phylogenetics and Evolution* (4), *Nature* (12), *Nature Communications* (4), *Nature Ecology & Evolution* (1), *Nature Reviews Genetics* (1), *Nature Reviews Microbiology* (1), *New Phytologist* (3), *Nucleic Acids Research* (2), *PLOS Biology* (2), *PLoS Genetics* (1), *Proceedings of the National Academy of Sciences, USA* (31), *Proceedings of the Royal Society of London* (3), *Protist* (13), *Science* (6), *Science Advances* (1), *Symbiosis* (2), *Trends in Ecology and Evolution* (1), *Trends in Genetics* (3), *Trends in Microbiology* (1), *Trends in Plant Science* (1), *Virus Evolution* (2)

INVITED JOURNAL EDITORSHIPS AND BOARD MEMBERSHIPS

2020 **Guest Editor**, *Proceedings of the National Academy of Sciences, USA*
 2019 **Guest Editor**, *Proceedings of the National Academy of Sciences, USA*
 2018 **Guest Editor**, *mBio* (American Society for Microbiology)
 2016 **Guest Editor**, *Proceedings of the National Academy of Sciences, USA*
 2015 **Guest Editor**, *Proceedings of the National Academy of Sciences, USA*
 2014 **Guest Editor**, *Proceedings of the National Academy of Sciences, USA*
 2014-15, present **Editorial Board Member**, *Environmental Microbiology* (Intl. peer-reviewed journal)
 2013-2016 **Editorial Board Member**, *Eukaryotic Cell* (International peer-reviewed journal; now ASM *mSphere*)

2013	Guest Editor, Proceedings of the National Academy of Sciences, USA
2012-present	Editorial Board Member, Current Biology (International peer-reviewed journal)
2011	Guest Editor, Proceedings of the National Academy of Sciences, USA
2010-present	Associate Editor, Genome Biology and Evolution (Intl. peer-reviewed journal)
2010-2011	Associate Editor, Molecular Phylogenetics & Evolution (Intl. peer-reviewed journal)
2009-present	Editorial Board Member, BMC Biology (International peer-reviewed journal)
2009	Guest Editor, Proceedings of the National Academy of Sciences, USA
2009-2011	Associate Editor, Journal of Phycology (International peer-reviewed journal)
2008	Guest Editor, Proceedings of the National Academy of Sciences, USA
2007-2010	Associate Editor, Phycological Research (International peer-reviewed journal)

NATIONAL AND INTERNATIONAL GRANT PROPOSAL REVIEWER

2024	Templeton Foundation, USA
2023	Natural Sciences and Engineering Research Council of Canada
2023	Canada Research Chair Program
2021	French National Research Agency, “Living Earth” Evaluation Panel
2020	The Leverhulme Trust, UK
2020	Biotechnology and Biological Sciences Research Council, UK (Strategic Longer and Larger Grants Committee D)
2020	Natural Sciences and Engineering Research Council of Canada
2020	Gordon and Betty Moore Foundation
2019	Knut and Alice Wallenberg Foundation (Sweden)
2019	Natural Sciences and Engineering Research Council of Canada
2018	German Research Foundation (DFG), Emmy Noether Program
2015	Gordon and Betty Moore Foundation Marine Microbiology Initiative, Experimental Model Systems Program
2014	NASA Astrobiology Institute
2014	Canadian Foundation for Innovation, Major Science Initiatives Expert Review Committee Member
2014	French National Research Agency, pre-proposal reviewer
2014	Canadian Institutes of Health Research, Genomics Panel
2013	Heinrich Heine University, Structural Research Fund, Düsseldorf, Germany
2011	Gordon and Betty Moore Foundation (USA)
2011-2012	French National Research Agency
2009	NASA Astrobiology Institute
2009	National Science Foundation / USDA, Genomics Panel
2008-2010	Canadian Institutes of Health Research
2008-2009	Biotechnology and Biological Sciences Research Council, UK
2008	Canadian Foundation for Innovation
2008	Granting Agency of the Academy of Sciences of the Czech Republic
2008	European Science Foundation
2006	Austrian Science Foundation
2005-2009	Natural Sciences and Engineering Research Council of Canada
2004, 2007	Natural Environmental Research Council, UK
2003-2004	NASA Exobiology and Evolutionary Biology Program, USA
2003-2010	National Science Foundation, USA

NATIONAL AND INTERNATIONAL HONOURS AND SERVICE

2023-24	Scientific Organizing Committee Member, International Phycological Congress (IPC14)
2023	Strategic Planning Committee Member, US Department of Energy Joint Genome Institute
2023	Organizing Committee Member, Canadian Society for Microbiology Annual Meeting
2022-23	Scientific Organizing Committee Member, International Phycological Congress (IPC13)
2022-present	Fungal-Algal Advisory Board Member, US Department of Energy Joint Genome Institute
2021-present	Diversity, Equity, Inclusion, and Justice Committee, Earth BioGenome Project

- 2021-present **Hub Lead**, Aquatic Symbiosis Genomics Project, Wellcome-Sanger Institute and the Gordon and Betty Moore Foundation
- 2021-24 **Canada Gairdner Awards Medical Review Panel Member**, Gairdner Foundation
- 2020-21 **Scientific Organizing Committee Member**, International Phycological Congress (IPC12)
- 2020-present **Scientific Advisory Committee Member (Chair in 2022)**, US Department of Energy Joint Genome Institute
- 2019-20 **Sub-Committee Member**, Earth BioGenome Project (sample collection and processing)
- 2018 **Advisory Committee Member**, future research opportunities, Gordon and Betty Moore Foundation, USA
- 2018-2023 **Steering Committee Co-Chair**, Royal Society of Canada, Atlantic Division
- 2017 **Co-Organizer**, Workshop on symbiosis (The Company of Biologists), Sussex, UK.
- 2017-18 **Steering Committee Member**, Royal Society of Canada, Atlantic Division
- 2016 **Co-Lead Organizer**, Trainee Summit, EMBL, Heidelberg, Germany
- 2016 **Discussion Leader**, Gordon Research Conference on Mitochondria and Chloroplasts (Vermont)
- 2015-16 **Organizing Committee Member**, EMBL/EMBO – Moore Foundation Marine Microbiology Initiative Symposium on Aquatic Microeukaryotes, EMBL, Heidelberg, Germany
- 2014 **Lead Organizer**, Dalhousie University – Christian Albrechts University Workshop on Evolutionary Genomics of Symbiosis, Halifax, Nova Scotia Canada.
- 2014 **Expert Review Committee Member**, Canadian Foundation for Innovation, Major Science Initiatives
- 2014 **Peer Review Committee Member**, Canadian Institutes of Health Research, Genomics Panel
- 2013 **Organizing Committee Chair**, 12th International Colloquium on Endocytobiology and Symbiosis, Halifax, Nova Scotia Canada.
- 2011 **Lead Organizer**, *Guillardia theta* and *Bigelowiella natans* International Genome Jamboree. Sept 7-9, DOE Joint Genome Institute, Walnut Creek, California
- 2010-2011 **Organizing Committee Member**, Marine Microbial Eukaryote Transcriptome Project (Gordon and Betty Moore Foundation and the National Center for Genome Resources)
- 2011 **Peer Review Committee Member**, Canadian Institutes of Health Research, Genomics Panel
- 2010-2013 **Peer Review Committee Member**, Canadian Institutes of Health Research, New Investigator Awards (Panel C)
- 2009-2010 **Peer Review Committee Member**, Canadian Institutes of Health Research, Doctoral Research Award A (DRA) and Masters Awards (CGA)
- 2009-2011 **Treasurer**, International Society for Molecular Biology & Evolution
- 2009 **Chair and Coordinator**, Undergraduate Diversity Mentoring Program, held in conjunction with the 17th Annual Meeting of the Society for Molecular Biology and Evolution, Iowa City, Iowa
- 2008-2009 **Associate Director**, Canadian Institute for Advanced Research, Program in Integrated Microbial Biodiversity
- 2008-2009 **Peer Review Committee Member**, Canadian Institutes of Health Research, Human Microbiome Catalyst Grants
- 2008-2009 **Peer Review Committee Member**, Canadian Institutes of Health Research, Doctoral Research Award A (DRA) and Masters Awards (CGA)
- 2008 **Invited participant**, Human Microbiome Project Workshop, funded by Genome Canada and CIHR Institute of Infection and Immunity (III), Toronto, Canada
- 2008 **Invited participant**, “Where to next with the tree of life? A workshop sponsored by the National Science Foundation” (sponsored by NSF, April 3-6, Washington, DC, USA)
- 2008 **Scientific Committee Member**, 16th Annual Meeting of the Society for Molecular Biology and Evolution, Barcelona, Spain
- 2008 **Co-Chair**, Undergraduate Diversity Mentoring Program, held in conjunction with the 15th Annual Meeting of the Society for Molecular Biology and Evolution, Barcelona, Spain
- 2007 **Scientific Committee Member**, 15th Annual Meeting of the International Society for Evolutionary Protistology, Halifax, Nova Scotia Canada.
- 2007-2008 **Peer Review Committee Member**, Canadian Institutes of Health Research, Doctoral Research Award A (DRA) and Masters Awards (CGA)
- 2007 **Organizing Committee Chair**, 15th Annual Meeting of the Society for Molecular Biology and Evolution, Halifax, Nova Scotia Canada. (~700 delegates from >25 countries)

- 2007 **Chair and Coordinator**, Inaugural Undergraduate Diversity Mentoring Program, held in conjunction with the 15th Annual Meeting of the Society for Molecular Biology and Evolution.
- 2005 **International symposium organizer** (“*Origin and evolution of photosynthetic life*”), Joint meeting of the International Society for Molecular Biology and Evolution and the Australasian Genetic Association, Auckland, New Zealand.
- 2003 **Invited participant**, Genome Canada/Environment Canada-sponsored Workshop
- 2002-2004 **North American Councilor**, International Society for Evolutionary Protistology

PROFESSIONAL AFFILIATIONS

- 2017- Nova Scotian Institute of Science
- 2007-present International Society of Endocytobiology
- 2004-2005 Nova Scotian Institute of Science
- 2003-present Canadian Institute for Advanced Research
- 2002-present International Society of Protistologists
- 1999-present International Society for Evolutionary Protistology
- 1999-present Society for Molecular Biology and Evolution (inc. Treasurer 2009-2011)

UNIVERSITY AND DEPARTMENTAL ADMINISTRATIVE ACTIVITIES

- 2023 **Convocation address**, Faculty of Science (May 31st, 12:30 PM)
- 2023-24 **Chair**, Internal Review Committee, Senate Review of the Beatrice Hunter Cancer Research Institute
- 2023 **Judge**, Department of Pathology Research Day
- 2023 **Member**, Donald Hill Postdoctoral Fellowship Committee
- 2022-23 **Chair**, Department of Pharmacology Survey Committee
- 2022 **Member**, Scientific Director Search Committee, Beatrice Hunter Cancer Research Institute
- 2021-2024 **Member**, Scientific Advisory Committee, Dalhousie Medical Research Foundation
- 2021-present **Member**, Faculty of Medicine CORES Genomics Core Oversight Committee
- 2020 **Member**, Dalhousie University, New Frontiers in Research Fund, Internal Peer Review Committee
- 2019-20 **Member**, University Strategic Planning Self Study Team (Research)
- 2019-20 **Chair**, Department of Biochemistry & Molecular Biology Academic Planning Committee
- 2018-present **Co-Chair**, Genomics in Medicine Executive Committee (Faculty of Medicine)
- 2018 **Member**, Dalhousie University, Faculty of Medicine, Canadian Institutes of Health Research Internal Peer Review Committee
- 2018-present **Member**, Faculty of Medicine CORES Electron Microscopy Core Oversight Committee
- 2017-18 **Member**, Organizing Committee Member, 2018 Royal Society of Canada AGM (held at Dalhousie University)
- 2016–2018 **Member**, Department of Biochemistry & Molecular Biology Academic Planning Committee
- 2016 **Member**, Dalhousie University, Faculty of Medicine, Canadian Institutes of Health Research Internal Peer Review Committee
- 2016–2017 **Member**, Dalhousie University, Department of Physiology & Biophysics Survey / Search Committee
- 2016–2023 **Member**, Dalhousie University Biological Safety Committee
- 2015–2016 **Member**, Dalhousie’s Faculty of Medicine Medical Research Advisory Committee
- 2014–2015 **Member**, Department of Biochemistry & Molecular Biology Promotions and Tenure Committee
- 2014 **Lead Organizer**, Dalhousie University—Kiel University Workshop on Evolutionary Genomics of Symbiosis (Dec 1-2)
- 2013–2014 **Member**, Dalhousie University—IWK Health Centre, Department of Diagnostic Radiology Review Committee
- 2013–2014 **Member**, Dalhousie Medicine New Brunswick Academic Affairs Committee
- 2011–2022 **Member**, Faculty of Graduate Studies College of Ph.D. Thesis Examination Chairs
- 2010–2015 **Graduate Coordinator**, Department of Biochemistry & Molecular Biology
- 2009–2010 **Co-Chair**, Faculty of Medicine Basic Science Promotions and Tenure Committee
- 2008–2009 **Chair**, Department of Biochemistry & Molecular Biology Promotions and Tenure Committee

2008–2009 **Member**, Faculty of Medicine Basic Science Promotions and Tenure Committee
2008 **Judge**, Faculty of Medicine Graduate Student Research Day
2008–2009 **Member**, Department of Biochemistry & Molecular Biology Job Search Committee
2007 **Facilitator**, Faculty of Medicine Workshop on Scholarly Integrity
2007–2012 **Patrick Prize Committee Member**, Department of Biochemistry & Molecular Biology
2006–2010 **Associate Graduate Coordinator**, Department of Biochemistry & Molecular Biology
2006–2007 **Member**, Department of Biochemistry & Molecular Biology Promotions and Tenure Committee
2005–2015 **Member**, Department of Biochemistry & Molecular Biology Graduate Advisory Committee
2004–2005 **Member**, Department of Biochemistry & Molecular Biology Promotions and Tenure Committee
2004 **Judge**, Faculty of Medicine Graduate Student Research Day
2004–2005 **Chair**, Department of Biochemistry & Molecular Biology Website Committee
2004–2009 Department of Biochemistry & Molecular Biology Seminar Series, Chair, Coordinator and Committee Member

THESIS EXAMINATIONS (national and international)

2022—PhD External Examiner for David McWatters, Department of Biological Sciences, University of Lethbridge, Alberta, Canada. Thesis Title: *Identification and comparison of non-coding RNAs and ribonucleoprotein complexes in several diverse protist species.*

2022—PhD External Examining Committee Member for Marie Leleu, Université de Lille, France. Thesis Title: *Testing the chlamydial footprint in the evolution of Archaeplastida.*

2020—Habilitation a Diriger la Recherche Examination Committee Member, Dr. Ugo Cenci, Université de Lille, France. Thesis Title: *La vie sucrée des eucaryotes (The sweet life of eukaryotes).*

2019—PhD External Examiner for Benjamin Jenkins, School of Biological Sciences, University of Exeter, UK. Thesis Title: *Using RNA interference to investigate cell-cell interactions in a nascent phototrophic endosymbiosis.*

2017—PhD External Examiner for Sebastian Wittek, Mathematisch-Naturwissenschaftlichen Fakultät der Universität zu Köln. Thesis Title: *Acquisition of photoautotrophy in kleptoplastic dinoflagellates—Nusuttodinium aeurinosum/acitotum as a case study.*

2013—PhD External Examiner for Dong Wang, School of Molecular and Biomedical Sciences (Genetics), University of Adelaide, Australia. Thesis Title: *Chloroplast DNAs diversify nuclear and mitochondrial genomes in plants.*

2013—BSc Honours External Examiner for Vojta David, Faculty of Science, University of South Bohemia, Czech Republic. Thesis Title: *Assembly and annotation of a mitochondrial genome from the kinetoplastid protist Perkinsela.*

2010—PhD External Examiner for Jillian Ackland, School of Botany, University of Melbourne, Australia. Thesis Title: *The evolution and function of the dinoflagellate mitochondrion.*

2009—PhD External Examiner for Rhodri Lewis, Department of Zoology, University of Oxford, UK. Thesis Title: *Multigene studies of cercozoan phylogeny and evolution.*

2009—PhD External Examiner for Fabien Burki, Department of Zoology and Animal Biology, University of Geneva, Switzerland. Thesis Title: *A phylogenomic contribution to the eukaryotic tree of life.*

2008—Habilitationvorhaben bon Frau Kerstin Hoef-Emden, Mathematisch-Naturwissenschaftlichen Fakultät der Universität zu Köln (“Habilitation examination” for Dr. rer. nat. Kerstin Hoef-Emden, Faculty of Mathematics and Natural Sciences, University of Cologne, Germany). Thesis title: *Towards a revision of genera and species in the class Cryptophyceae by combining molecular phylogeny and classical morphological methods.*

SUPERVISORY EXPERIENCE

Postdoctoral Fellows

<i>Jong Im Kim</i> , Ph.D.	Visiting Scientist, April 2023-October 2023
<i>Jong Im Kim</i> , Ph.D.	Visiting Scientist, September 2021-March 2022
<i>Xi Zhang</i> , Ph.D.	September 2021-September 2023
<i>Dudley Chung</i> , Ph.D.	September 2020-present
<i>Lucie Gallot-Lavallée</i> , Ph.D.	March 2018-present
<i>Gina Filloramo</i> , Ph.D.	March 2017-March 2022 (Current position : Senior Genome Technologist, Massachusetts General Hospital DNA Core)
<i>Jan de Vries</i> , Ph.D.	September 2016-March 2019 (Current position : Faculty member, Georg-August University, Goettingen, Germany)
<i>Jong Im Kim</i> , Ph.D.	Visiting Scientist, August-December 2018 (Current position : Research Associate, Chungnam National University, Republic of Korea)
<i>Sebastian Hess</i> , Ph.D.	July 2018- September 2018 (Current position : Independent Research Group Leader, University of Cologne, Germany)
<i>Anna Åsman</i> , Ph.D.	September 2016-April 2018 (Current position : Postdoctoral fellow, Swedish University of Agricultural Sciences, Sweden)
<i>Jong Im Kim</i> , Ph.D.	Visiting Scientist, October 2016-November 2017 (Current position : Research Associate, Chungnam National University, Republic of Korea)
<i>Cameron Grisdale</i> , Ph.D.	February 2015-May 2017 (Current position : Bioinformatician, BC Cancer Agency)
<i>Daniel Moog</i> , Ph.D.	April 2014-May 2016 (Current position : Scientific Coordinator, Max Planck Institute for Terrestrial Microbiology, Marburg, Germany)
<i>Ugo Cenci</i> , Ph.D.	February 2014-January 2016 (Current position : Faculty member, Université de Lille, France)
<i>Gillian Gile</i> , Ph.D.	December 2013-August 2015 (Current position : Faculty member, Arizona State University, Tempe)
<i>Bruce Curtis</i> , Ph.D.	December 2012-December 2022 (Current position : retired)
<i>Ansgar Gruber</i> , Ph.D.	September 2012-September 2013 (Current position : Postdoctoral fellow, Institute of Parasitology Biology Centre, Czech Republic)
<i>Jimeng Hua</i> , Ph.D.	April 2012-May 2013 (Current position : unknown)
<i>Takuro Nakayama</i> , Ph.D.	June 2011-April 2013 (Current position : Faculty member, Tohoku University, Japan)
<i>Shinichiro Maruyama</i> , Ph.D.	November 2009-March 2013 (Current position : Faculty member, Dept. of Ecology and Evolution, Tohoku University, Japan)
<i>Goro Tanifuji</i> , Ph.D.	January 2009-August 2013 (Current position : Faculty member, National Museum of Nature and Science, Tsukuba University, Japan)
<i>Julia Hopkins</i> , Ph.D.	September 2007-May 2013 (Current position : Senior Scientist, Foundation Medicine Inc., Cambridge, MA)
<i>Eunsoo Kim</i> , Ph.D.	Winter 2007–Winter 2012 (Current position : Faculty member, American Museum of Natural History, New York)
<i>Christopher Lane</i> , Ph.D.	Fall 2004–Summer 2008 (Current position : Faculty member, Dept. of Biology, University of Rhode Island)
<i>Stan Theophilou</i> , Ph.D.	Winter 2004–Fall, 2004 (Current position : unknown)

Graduate Students

<i>Charlotte McLean</i>	2024-26 – M.Sc. student
<i>Jessica Latimer</i>	September 2023 – present (M.Sc. student)
<i>Dmytro Tymoshenko</i>	September 2023 – present (Ph.D. student)
<i>Cédric Blais</i>	2022-present (Ph.D. student)
<i>Ella Kantor</i>	2022-present (M.Sc. student; co-supervised with J. LaRoche)
<i>Anna Vanclova</i>	June 2018-September 2018 (visitor from Czech Republic)
<i>Morgan Colp</i>	January 2018-present (NSERC CGS Scholarship recipient)
	<u>Ph.D. Thesis</u> : “Developing an experimental system to study lateral gene

	transfer in Eukaryotes”
Shannon Sibbald, M.Sc.	January 2018-present (NSERC CGS Scholarship recipient) <u>Ph.D. Thesis:</u> “Genomic variation in <i>Aureococcus anophagefferens</i> ”
Vojtech David, M.Sc.	September 2015-December 2017
Shannon Sibbald	September 2015-August 2017 (funded by NSERC scholarship) <u>MSc Thesis:</u> “Symbiosis and its impact on eukaryotic evolution”
Christa Moore, Ph.D.	September 2008-June 2013 (NSERC CGS Scholarship recipient) <u>Ph.D. Thesis:</u> Nucleomorph and plastid genome evolution in the cryptophyte <i>Chroomonas mesostigmatica</i>
Bruce Curtis, Ph.D.	May 2008-October 2012 <u>Ph.D. Thesis:</u> “Endosymbiotic gene transfer in the nucleomorph-containing organisms <i>Bigelowiella natans</i> and <i>Guillardia theta</i> ”
Robert Eveleigh, M.Sc.	September 2008-2011 <u>MSc Thesis:</u> “Being <i>Aquifex aeolicus</i> : untangling a hyperthermophile’s checkered past”
Natalie Donaher, M.Sc.	September 2006-Spring 2009 (NSERC CGS Scholarship recipient) <u>MSc Thesis:</u> “The complete plastid genome sequence of the secondarily non-photosynthetic alga <i>Cryptomonas paramecium</i> 977/2a”
Tia Silver, M.Sc.	May 2005- Fall 2008 (NSHRF Student Award recipient) <u>MSc Thesis:</u> “Nucleomorph genome diversity in chlorarachniophyte algae”
Hameed Khan, Ph.D.	Summer 2004-Spring 2008 <u>Ph.D. Thesis:</u> “Diversity and evolution of mobile genetic elements in the nuclear and organellar genomes of cryptophyte algae”

Undergraduate Students

Sonja Hum	2024, summer and Honours student
Eda Oszan	2024, experiential learning student, summer and Honours student
Saffi Sangster	2023 summer student
Emma Phelan	2023 summer student
Sari Matar	2023-23 summer and Honours student
Jack Wuotila	2022-23 summer and Honours student
Charlotte McLean	2022-23 summer and Honours student
Kalen Spinney	2022, experiential learning and summer student
Emma Fennessy	2021, co-op student
Margaret Lawton	2019-2020, co-op and Honours student
Cédric Blais	2018-2020, Honours student (History of Science and Technology, University of King’s College)
Meagan Adams	2018-2019, Honours student (Biology)
Emma Blanche	2018, co-op student
Elizabeth Woolaver	2018, undergraduate research volunteer
Morgan Colp	2016-17, co-op and Honours student (recipient of NSERC USRA)
Michael McPhee	2015-16, experiential, summer, and Honours student
Amanda Stanton	2014-15, summer student (recipient of NSERC USRA)
Shannon Sibbald	2014-15, summer and Honours student
Louis Martin	2014-15, summer and Honours student (recipient of NSERC USRA)
Vojtech David	2013, summer student
Rebecca Gibeault	2010-11, Honours student
Katherine Richman	2010-11, Honours student
James Giffin	2010, Summer research volunteer
Tyler Mills	2009-10, summer and Honours student
Matthew MacDowell	2008-09, Honours student
Zach Fitzsimmons	2007-08, Honours student
Natalie Parks	2006-07, Honours student (recipient of NSERC USRA (declined) and winner of 2007 University Medal in Biochemistry & Molecular Biology)

Krystal van den Heuvel 2005-07, summer and Honours student (recipient of NSERC USRA for summer 2005 and summer 2006, recipient of 2005/06 *W. Andrew MacKay Alumni Scholarship*)
Kyle Phipps 2005-06, summer and Honours student
Melissa MacKinnon 2004-05, summer and Honours student

Research Technicians and Lab Managers

Marlena Dlutek Fall 2007–Present
Katrin Sommerfeld Fall 2007-summer 2010
Anna Fong Winter 2004–Fall 2007

Research Assistants

Charlotte McLean May-December 2023
Dmytro Tymoshenko Fall 2022-August 2023
Cédric Blais May-August 2020
Krista Jager September-December 2018
Shannon Sibbald September-December 2017
Jessica Johnson-Mackinnon May 2013-December 2013
Robert Eveleigh January 2012–April 2012
Naoko Tanifuji January 2009-August 2013
Tia Silver January 2009–April 2009
Robert Eveleigh May 2008–August 2008
Christa Moore April 2008–August 2008

High School Student Job Shadows and Co-op placements

Saffi Sangster September-December 2021, Citadel High School
Matt Hood July-August, 2008, Sackville High School
Alex Sisley January 13, 2006, J. L. Ilsley High School
Matthew Ponsford November 26, 2004, J. L. Ilsley High School